FILE NO. 030-9803

TOSHIBA

SERVICE MANUAL

COLOUR TELEVISION

C80 Chassis

1480TB, 1480TBW 1480RB, 1480RBW

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CHAPTER 1 GENERAL ADJUSTMENTS

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is (a) kV at zero beam current (minimum brightness) under a (c) V AC power source. The high voltage must not, under any circumstances, exceed (b) kV.

Refer to table-1 for high voltage (a), (a) & AC voltage (c) (See SETTING & ADJUSTING DATA on page 13)

Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.

- The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
- Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING: Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

- 1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
- 2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
- 3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

SET-UP ADJUSTMENT

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed. Perform the adjustments in order as follows:
 - 1. Color Purity
 - 2. Convergence
 - 3. White Balance

Note: The PURITY/CONVERGENCE MAGNET assembly and rubber wedges need mechanical positioning. Refer to figure 1.

* There are no adjustment of purity and convergence in some picture tube (Unified with purity magnet)

COLOR PURITY ADJUSTMENT

NOTE: Before attempting any purity adjustments, the receiver should be operated for at least fifteen minutes.

- Demagnetize the picture tube and cabinet using a degaussing coil.
- 2. Set the brightness and contrast to maximum.
- 3. Use a green raster from among the built-in test signals.
- Loosen the clamp screw holding the yoke and slide the yoke backward or forward to provide vertical green belt (zone) in the picture screen.
- 5. Remove the Rubber Wedges.
- Rotate and spread the tabs of the purity magnet (See figure 2.) around the neck of the picture tube until the green belt is in the center of the screen. At the same time, enter the raster vertically.
- Slowly move the yoke forward or backward until a uniform green screen is obtained. Tighten the clamp screw of the yoke temporarily.
- 8. Check the purity of the red and blue raster.

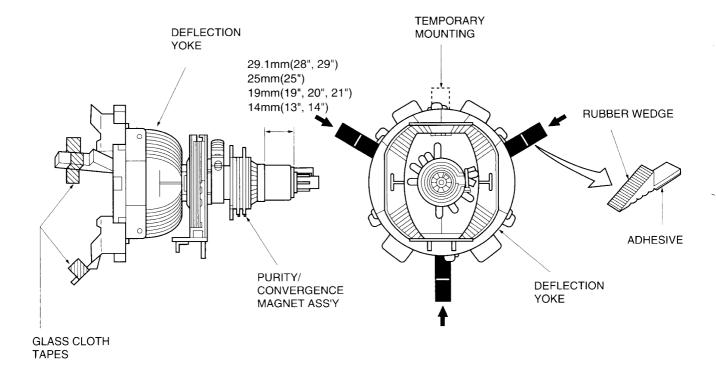


Figure 1.

CONVERGENCE ADJUSTMENTS

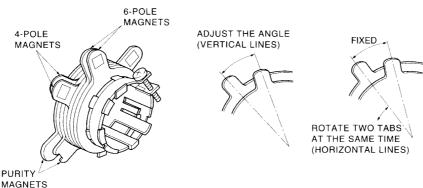
NOTE: Before attempting any convergence adjustments, the receiver should be operated for at least fifteen minutes.

■ CENTER CONVERGENCE ADJUSTMENT

- Use the cross-dot pattern from among the built-in test signals.
- 2. Set the brightness and contrast for well defined pattern.
- Adjust two tabs of the 4-Pole Magnets to change the angle between them (See figure 2.) and superimpose red and blue vertical lines in the center area of the picture screen.
- Turn the both tabs at the same time keeping the angle constant to superimpose red and blue horizontal lines at the center of the screen.
- Adjust two tabs of 6-Pole Magnets to superimpose red/ blue line and green one. Adjusting the angle affects the vertical lines and rotating both magnets affects the horizontal lines.
- Repeat adjustments 3, 4, 5 keeping in mind red, green and blue movement, because 4-Pole Magnets and 6-Pole Magnets have mutual interaction and make dot movement complex.

■ CIRCUMFERENCE CONVERGENCE ADJUSTMENT

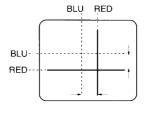
- 1. Loosen the clamping screw of deflection yoke slightly to allow the yoke to tilt.
- 2. Temporarily put a wedge as shown in figure 1. (Do not remove cover paper on adhesive part of the wedge.)
- 3. Tilt front of the deflection yoke up or down to obtain better convergence in circumference. (See figure 3.) Push the mounted wedge into the space between picture tube and the yoke to fix the yoke temporarily.
- Put other wedge into bottom space and remove the cover paper to stick.
- 5. Tilt front of the yoke right or left to obtain better convergence in circumference. (See figure 3.)
- Keep the yoke position and put another wedge in either upper space. Remove cover paper and stick the wedge on picture tube to fix the yoke.
- 7. Detach the temporarily mounted wedge and put it in another upper space. Stick it on picture tube to fix the yoke.
- After fixing three wedges, recheck overall convergence.
 Tighten the screw firmly to fix the yoke and check the yoke is firm.
- 9. Stick three adhesive tapes on wedges as shown in figure 1



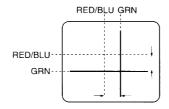
CONVERGENCE MAGNET ASSEMBLY

ADJUSTMENT OF MAGNETS

Figure 2.

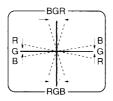


4-POLE MAGNETS MOVEMENT

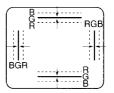


6-POLE MAGNETS MOVEMENT

Center Convergence by Convergence Magnets



INCLINE THE YOKE UP (OR DOWN)



INCLINE THE YOKE RIGHT (OR LEFT)

Circumference Convergence by DEF Yoke

Figure 3. Dot Movement Pattern

SERVICE AND DESIGN MODE

1. ENTERING TO SERVICE AND DESIGN MODE

1) Press ⋠ button once on Remote Control.

2) Press ⋠ button again to keep pressing.

3) While pressing the ⋠ button, press Vol Down ✓ - button on TV set.

[Item S/D]

Data

(Service mode display)

2. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

A single horizontal line ON/OFF:

-/--button (on Remote)

Selection of the adjustment items :

Change of the data value : Initialization of the memory (QA02) :

CALL + CHANNEL button on TV (A)

I2C BUS ON/OFF:

CALL+VOL ∠ + UP.

ASM start :

CALL+VOL ⊿ – DOWN.

Automatic VCO adjustment :

0 button. 1 button

"RCUT" selection : "GCUT" selection :

2 button

"BCUT" selection:

3 button

"CNTX" (or "SCNT") selection :

4 button 5 button - - - Color thickness correction

"COLC" selection:

6 button

note: Displayed differently as shown below, de-

"SECAM R-Y offset" selection

7 button

pending on the setting of the receiving color

"SECAM B-Y offset" selection

8 button

system. COLP (PAL)

COLC (NTSC)

COLS (SECAM)

CAUTION: Never try to perform initialization unless you have changed the memory IC.

3. SELECTING THE ADJUSTING ITEMS

Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2.
 (▼ button for reverse order)

Refer to table-2 for preset data of adjustment mode. (See SETTING & ADJUSTING DATA on page 13)

4. ADJUSTING THE DATA

1) Pressing of VOLUME \checkmark +/- button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

5. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA OF QA02

After replacing QA02, the following initialization is required.

- 1. Enter the service mode, then select any register item.
- 2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 has been complated.
- 3. Check the picture carefully. If necessary, adjust any adjustment item above. Perform "Auto search Memory".

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

ELECTRICAL ADJUSTMENTS

Model C80 Series (Reference factory adjustments)

Item: [AFT],[LAFT],[RAGC],[LAGC]

The entire set (including the micro) must be powered for this alignment

For sets using the TB1231N Chroma Device the following method must be used:

UK / German Sets (1480TB,1480RB,1480RD,2181TB,2180TD) initial batches only:

- 1) Disconnect IF Pad, and set service and design mode.
- 2) Apply IF Carrier Signal at 38.9MHz/95dBuV (39.5MHz/95dBuV for UK) to the cct side of the IF pad.
- 3) Ensure Bus-Data is as follows:

$$[AFT] = 40H$$

- 4) Attach DVM to Q501 #4 and record the voltage.
- 5) Using a ceramic trimmer adjust L161 until steep change of voltage between 0.2V and 4.8V (approximately).
- 6) Set the coil to get 2.5V (i.e. the centre of the slope).
- 7) Disconnect the DVM
- 9) Disconnect IF Signal Generator
- 10) Re-solder IF Pad.

For sets using the TB1238N Chroma Device the following method must be used as it can be adjusted automatically: (Every model after initial batches above)

UK / German Sets:

- 1) Disconnect IF Pad, and set to service and design mode.
- 2) Apply IF Carrier Signal at 38.9MHz/95dB uV (39.5MHz/95dBuV for UK) to the cct side of the IF Pad.
- 3) Push POS O button on Universal HHU then wait for "AFT OK" to appear on screen.
- 4) Select RAGC in the service mode and adjust the RF-AGC of the tuner becomes 4V by pushing VOL ∠ -/+ buttons on the remote.
- 5) Disconnect IF Signal Generator
- 6) Re-solder IF Pad.

French Sets:

- 1) Ensure Position {n} is in the UHF Band in any system
- 2) Disconnect IF Pad and and select position {n}, and set service and design mode.
- 3) Appy IF Carrier Signal of 38.9MHz/95dbuV to the cct side of the IF pad.
- 4) Push POS O button on Universal HHU then wait for "AFT OK" to appear on screen.
- 5) Select RAGC in the service mode and adjust the RF-AGC of the tuner becomes 4V by pushing VOL ∠-/+ buttons on the remote.
- 6) Select LAGC in the Service mode and input the data value same as RAGC mode.
- 7) Disconnect IF Signal Generator and re-solder IF Pad.

[There will be no French sets using the TB1231N V/C/D IC, <u>all</u> sets will eventually use the TB1238N device. The automatic system DOES NOT require a 34.47MHz signal for SECAM L alignment, as the frequencies are generated internally.

(The Universal HHU commands are Listed on the end of this document including AFT/AGC)

| Item [SCNT] NO ADJUSTMENT | |
|---------------------------|--|
| Name: SUB-CONTRAST | |
| SETTING: | |
| Input Signal: | |
| Measurement Place: | |
| Adjustment Method: | |
| Standard: | |
| | |
| | |
| Item [BRTC] | |

Item [BRTC]

Name: SUB-BRIGHT CENTRE

SETTING: Set user control setting to STANDARD 1

Input Signal: SUB-BRIGHT SIGNAL Measurement Place: On Picture

Adjustment Method: Adjust the number of Black Steps visible on the picture

Standard: 4th bar from black 1.5bars

Note: Adjust last

Item [COLP] NO ADJUSTMENT

Name: SUB-COLOUR CENTRE (PAL)

SETTING:

Input Signal:

Measurement Place:

Adjustment Method:

Standard:

Item [TNTC] NO ADJUSTMENT { [TnTC] on REMOTE model }

Name: SUB-TINT CENTRE (M-NTSC Mode)

SETTING: Input Signal:

Measurement Place: Adjustment Method:

Standard:

Item [COLC] NO ADJUSTMENT

Name: SUB-COLOUR CENTRE (NTSC / PAL)

SETTING: Input Signal:

Measurement Place:

Adjustment Method:

Standard:

$Item\ [RCUT], [GCUT], [BCUT], [GDRV], [BDRV], [SCREEN\ VR]$

Name: CUT-OFF/DRIVE ADJUST

SETTING:

[RCUT],[GCUT],[BCUT] data set to 20H

[GDRV],[BDRV] data set to 40H

Set to Horizontal Line mode

Input Signal: White-Balance Signal (Reduced Dual Window Patten)

Measurement Place: On Picture

Adjustment Method:

Raise the screen VR gradually and stop in the place where the line of either R or G or B shines slightly. Set the VR position at that point.

Raise the CUT-OFF data of the two colours that did not appear first and stop when the line becomes white. Come out of Horizontal Line mode and using white balance gear adjust [GCUT],[BCUT] in Low-Lights (4 Ft-Lbts) and [GDRV],[BDRV] in High-Lights (30 Ft-Lbts) until Standard achieved in both conditions.

Standard:

103cd/m²(30 Ft-Lbts)

8750k +0.0075uv

17cd/m²(4 Ft-Lbts)

8750k +0.0020uv

(Automatic may be possible, [GDRV], [BDRV] might be deleted on 14 on future models)

Item [SRY],[SBY]

{ [SR],[SY] on REMOTE model }

Name: SECAM R-Y/B-Y BLACK LEVEL SETTING

SETTING: COLOUR: MID

Input Signal: Two-tone White-Balance Signal

Measurement Place: On Picture

Adjustment Method:

- 1) Remember settings of the PAL White-Balance Adjustment on the Low-Light.
- 2) Select Position 2 on the selector box and confirm that the three colour boxes are visible in the lower left hand corner of the screen.
- 3) Adjust [SRY] for a reading of within 2 indicators on the **Green** scale with respect to the original results obtained from point (1) above
- 4) Adjust [SBY] for a reading of within 2 indicators on the **Blue** scale with respect to the original results obtained from point (1) above
- 5) Re-select position 1 on the switch box to confirm that the setting are within 2 on scale.

Standard:

Item [COLS] NO ADJUSTMENT

Name: SUB-COLOUR CENTRE (SECAM)

SETTING:

Input Signal:

Measurement Place:

Adjustment Method:

Standard:

Item [VPOS] NO ADJUSTMENT

{ [VP50] on REMOTE model }

Name: VERTICAL PICTURE POSITION

SETTING:

Input Signal:

Measurement Place:

Adjustment Method:

Item [HIT]

Name: VERTICAL HEIGHT ADJUSTMENT

SETTING: CONTRAST=MAX BRIGHT=CENTRE COLOUR=CENTRE

Input Signal: WG Philips Pattern (Do not use French SECAM)

Measurement Place: On Picture

Adjustment Method: Adjust the [HIT] Bus-Data until castellations just disappear from Top and Bottom of

picture

Item [HOPS]

Name: HORIZONTAL PICTURE POSITION

SETTING: CONTRAST=MAX BRIGHT=CENTRE COLOUR=CENTRE

Input Signal: WG Philips Pattern (Do not use French SECAM)

Measurement Place: On Picture

Adjustment Method: Adjust the [HOPS] Bus-Data for the best Horizontal centring

CIRCUIT CHECKS

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps

- Connect an accurate high voltage meter to the second anode of the picture tube.
 Turn on the receiver. Set the BRIGHTNESS and CONTRAST controls to minimum (zero beam current).
- 3. High voltage must be measured below ® kV.

Refer to table-1 for high voltage (8). (See SETTING & ADJUSTING DATA on page 13)

4. Vary the BRIGHTNESS control to both extremes to be sure the high voltage does not exceed the limit under any conditions.

CHAPTER 2 SPECIFIC INFORMATIONS —

SETTING & ADJUSTING DATA

SAFETY INSTRUCTIONS 3

| | | 14" |
|----------------------------|---|----------|
| HIGH VOLTAGE AT ZERO BEAM: | A | 23.8kV |
| MAX HIGH VOLTAGE: | B | 26.0 kV |
| AC VOLTAGE | © | 220~240V |

Table-1

SERVICE MODE]

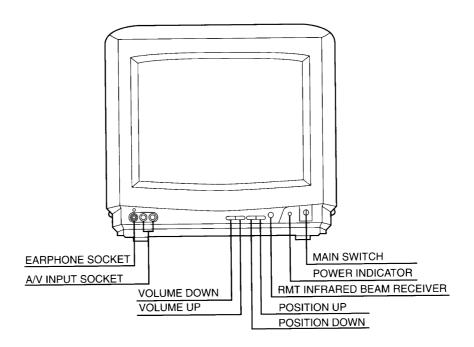
ADJUSTING ITEMS AND DATA IN THE SERVICE AND DESIGN MODE:

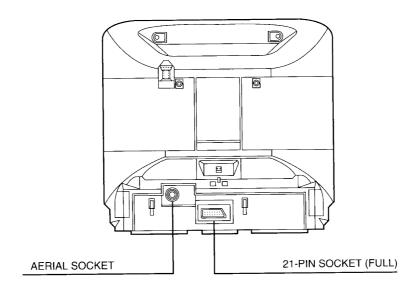
| Item | Name of adjustment | Preset | Data |
|------|--------------------|--------|--------------|
| RCUT | R CUTOFF | 20H | ← |
| GCUT | G CUTOFF | 20H | \leftarrow |
| BCUT | B CUTOFF | 20H | ← |
| GDRV | G DRIVE | 40H | \leftarrow |
| BDRV | B DRIVE | 40H | ← |
| SCNT | SUB-CONTRAST | 05H | 07H |
| BRTC | SUB-BRIGHT | 40H | 31H |
| COLC | SUB-COLOR | 00H | ← |

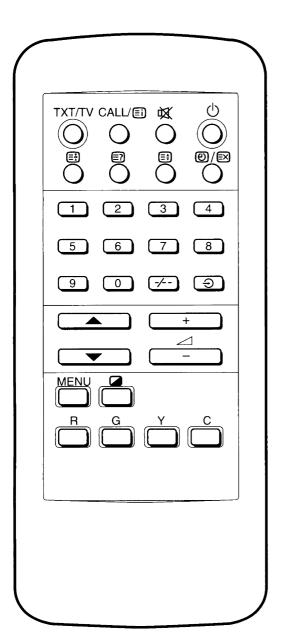
| Item | Name of adjustment | Preset | Data |
|--|--|--|------------------------------------|
| TNTC COLS HPOS VP50 HIT VLIS SBY | SUB-TINT SUB COLOR CEN SEC HORIZ. POSITION VERT. POSITION HEIGHT 50/60HZ V-LINE SECAM OFFSET B-Y | 3CH 40H 11H 03H 20H FFH | ← 13H OCH ← 00H 09H |
| SRY | SECAM OFFSET B-Y | 08H | 0DH |

Table-2

LOCATION OF CONTROLS







KEY ASSIGNMENT

| Ф | ON/STAND-BY |
|----------|--|
| ₡ | MUTE |
| CALL | DISPLAY CALL |
| MENU | TUNING & OTHER MENU |
| | PICTURE MENU |
| 1~9,0 | TEN KEY |
| -/ | 1 or 2 place |
| ⊕ | VIDEO INPUT (EXTERNAL INPUT SOURCE SW.) |
| ⊿ | VOLUME |
| + | LEVEL PLUS (VOLUME, MENU) |
| | LEVEL MINUS (VOLUME, MENU) |
| A | UP (POSI., CH., TEXT PAGE) |
| ▼ | DOWN (POSI., CH., TEXT PAGE) |
| | TXT/TV TEXT, MIX, TV MODE SW. |
| | |
| | 🗊 <text mode=""> REVEAL / CONCEAL</text> |
| | ② <text mode=""> F-T-B</text> |
| TELE- | (FULL, TOP, BOTTOM) |
| TEXT | ⊚/⊠TIME DISPLAY (TV MODE) |
| | TEXT CLEAR (TEXT MODE) |
| | 🗊 INDEX, INITIAL |
| | |
| | FLOF COLOUR KEY (4 key used) |
| | Red/Green/Yellow/Blue |

CRT EAR PHONE F.B.T. AUDIO OUT Q505,Q507,Q509 VIDEO OUT V. OUT 0601 H. OUT 0301 Q404 CIRCUIT BLOCK DIAGRAM PIF CHROMA VIDEO DEF. RGB SW Q501 +B VOLTAGE AFT IDENT. CONVERTER TRANS. OSD $\frac{1}{2}$ C QA01 η-CON HYBRID 5 Q801 MEMORY BAND SW TUNER H001 QA02 Q103 QR01 VIDEO AMP. 21 PIN (FULL) AV (FRONT)

H.

CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols " \bigwedge " in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

NOTICE:

- The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.
- The PC board assembly with * mark is no longer available after the end of the production.

Model: 1470TB/1470TBW/1470RB/1470RBW

Capacitors CD Ceramic Disk ΡF Plastic Film EL Electrolytic Resistors CF Carbon Film CC Carbon Composition MF Metal Film OMF: Oxide Metal Film VR : Variable Resistor Fusible Resistor FR

(All CD and PF capacitors are $\pm 5\%$, 50V and all resistors, $\pm 5\%$, 1/6W unless otherwise noted.)

| Location No. | Part No. | Description |
|-----------------|----------|------------------------------|
| CAPACITO | RS | |
| C102 | 24232103 | CD, 0.01µF, +80%, -20% |
| C104 | 24232103 | CD, 0.01 μ F, +80%, -20% |
| C106 | 24232103 | CD, 0.01μF, +80%, -20% |
| C107 | 24794102 | EL, 1000µF, ±20%, 16V |
| C111 | 24538104 | PF, 0.1μF |
| C131 | 24538474 | PF, 0.47μF |
| C132 | 24474102 | CD, 1000pF, ±10% |
| C133 | 24474102 | CD, 1000pF, ±10% |
| C161 | 24794101 | EL, 100μF, ±20%, 16V |
| C162 | 24473560 | CD, 56pF |
| C163 | 24473560 | CD, 56pF |
| C168 | 24232103 | CD, 0.01µF, +80%, –20% |
| C190 | 24232103 | CD, 0.01μF, +80%, -20% |
| C193 | 24797229 | EL, 2.2μF, ±20%, 50V |
| C195 | 24232103 | CD, 0.01μF, +80%, –20% |
| C196 | 24538104 | PF, 0.1μF |
| C190 | 24538104 | PF, 0.1μF |
| C197 | 24538104 | • |
| C199 | | PF, 0.1μF |
| | 24232103 | CD, 0.01µF, +80%, -20% |
| C202 C203 | 24206010 | EL, 1μF, 50V |
| | 24206228 | EL, 0.22μF, 50V |
| C204 | 24590222 | PF, 2200pF |
| C205 | 24473100 | CD, 10pF |
| C207 | 24538104 | PF, 0.1μF |
| C208 | 24538104 | PF, 0.1μF |
| C209 | 24538104 | PF, 0.1μF |
| C210 | 24794101 | EL, 100μF, ±20%, 16V |
| C211 | 24232103 | CD, 0.01μF, +80%, –20% |
| C212 | 24473100 | CD, 10pF |
| C213 | 24473100 | CD, 10pF |
| C214 | 24473100 | CD, 10pF |
| C215 | 24797100 | EL, 10μF, ±20%, 50V |
| C217 | 24797010 | EL, 1μF, ±20%, 50V |
| C219 | 24538474 | PF, 0.47μF |
| C220 | 24212152 | CD, 1500pF, ±10% |
| C221 | 24232103 | CD, 0.01μF, +80%, -20% |
| C222 | 24795471 | EL, 470μF, ±20%, 25V |
| C223 | 24666470 | EL, 47μF, ±20%, 16V |
| C224 | 24232103 | CD, 0.01μF, +80%, -20% |
| C227 | 24669010 | EL, 1μF, ±20%, 50V |
| | | |

| | 1.700 | |
|---------------|----------|--------------------------------------|
| Location | Part No. | Description |
| No. | | |
| C228 | 24590203 | PF, 0.02 <i>μ</i> F |
| C229 | 24797478 | EL, 0.47μF, ±20%, 50V |
| C230 | 24797478 | EL, 0.47μF, ±20%, 50V |
| C231 | 24797478 | EL, 0.47μF, ±20%, 50V |
| C232 | 24797478 | EL, 0.47μF, ±20%, 50V |
| C234 | 24232103 | CD, 0.01µF, +80%, -20% |
| C235 | 24794101 | EL, 100μF, ±20%, 16V |
| C236 | 24797478 | EL, 0.47μF, ±20%, 50V |
| C237 | 24212332 | CD, 3300pF, ±10% |
| C238 | 24232103 | CD, 0.01µF, +80%, -20% |
| C239 | 24794101 | EL, 100µF, ±20%, 16V |
| C240 | 24538474 | PF, 0.47μF |
| C241 | 24474101 | CD, 100pF, ±10% |
| C242 | 24474221 | CD, 220pF, ±10% |
| C243 | 24794101 | EL, 100μF, ±20%, 16V |
| C244 | 24232103 | CD, 0.01μF, +80%, -20% |
| C245 | 24794220 | EL, 22μF, ±20%, 16V |
| C306 | 24212391 | CD, 390pF, ±10% |
| C312 | 24590823 | PF, 0.082μF |
| C313 | 24668101 | EL, 100μF, ±20%, 35V |
| C314 | 24214102 | CD, 1000pF, ±10%, 500V |
| C317 | 24617912 | EL, 2.2μF, ±10%, 50V |
| C318 | 24666472 | EL, 4700μF, ±20%, 16V |
| C323 | 24082049 | PF, 0.047μ F, $100V$ |
| C325 | 24668101 | EL, 100µF, ±20%, 35V |
| C331 | 24668102 | EL, 1000μ F, $\pm 20\%$, 35 V |
| C332 | 24082057 | PF, 0.22μ F, $100V$ |
| C402 | 24797478 | EL, 0.47μF, ±20%, 50V |
| C410 | 24082261 | PF, 5600pF, 100V |
| C416 | 24214102 | CD, 1000pF, ±10%, 500V |
| △ C440 | 24082347 | PF, 6700pF, ±3%, 1500V |
| C442 | 24095753 | PF, 0.39μF, 200V |
| C445 | 24095903 | PF, 0.056μ F, $\pm 10\%$, 250V |
| C446 | 24666471 | EL, 470μF, ±20%, 16V |
| C447 | 24679479 | EL, 4.7μ F, $\pm 20\%$, 250 V |
| C448 | 24640908 | EL, 33µF, ±20%, 160V |
| C449 | 24667102 | EL, 1000μF, ±20%, 25V |
| △ C463 | 24212152 | CD, 1500pF, ±10% |
| C470 | 24666220 | EL, 22μF, ±20%, 16V |
| C471 | 24538474 | |
| C481 | 24666220 | EL, 22μF, ±20%, 16V |
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| Location | Part No. | Description |
|---------------|----------------------|--|
| No. | | |
| C482 | 24666101 | EL, 100μF, ±20%, 16V |
| C601 | 24795471 | EL, 470μF, ±20%, 25V |
| C602 | 24538104 | PF, 0.1μ F |
| C603 | 24795221 | EL, 220μF, ±20%, 25V |
| C605 | 24206010 | EL, 1μF, 50V |
| C606 | 24795220 | EL, 22μF, ±20%, 25V |
| C607 C608 | 24590682 24797010 | PF, 6800pF EL, 1μF, ±20%, 50V |
| C609 | 24797470 | EL, 47μF, ±20%, 16V |
| C610 | 24206010 | EL, 1μF, 50V |
| C611 | 24212102 | CD, 1000pF, ±10% |
| C612 | 24212102 | CD, 1000pF, ±10% |
| C613 | 24212102 | CD, 1000pF, ±10% |
| C616 | 24797100 | EL, 10μF, ±20%, 50V |
| C617 | 24206010 | EL, 1μF, 50V |
| C618 C619 | 24797470 24590152 | EL, 47μF, ±20%, 50V PF, 1500pF |
| C620 | 24797229 | EL, 2.2μF, ±20%, 50V |
| C623 | 24232103 | CD, 0.01μF, +80%, –20% |
| C624 | 24232103 | |
| △ C801 | 24082927 | PF, 0.22μF, ±20%, AC275V |
| △ C802 | 24094656 | CD, 2200pF, ±20%, AC400V |
| △ C803 | 24094656 | CD, 2200pF, ±20%, AC400V |
| C804 | 24794470 | EL, 47μF, ±20%, 16V |
| C807 | 24092281 | CD, 4700pF, ±20%, AC250V |
| C808 | 24092281 | CD, 4700pF, ±20%, AC250V |
| C809 C812 | 24086871 24092341 | EL, 120µF, ±20%, 400V CD, 470pF, ±10%, 2kV |
| C812 | 24095931 | PF, 2200pF, 1250V |
| C814 | 24590223 | PF, 0.022μF |
| C815 | 24590182 | PF, 1800pF |
| C816 | 24666470 | EL, 47μF, ±20%, 16V |
| C817 | 24676220 | EL, 22μF, ±20%, 100V |
| C820 | 24794470 | EL, 47μF, ±20%, 16V |
| C821 | 24797010 | EL, 1μF, ±20%, 50V |
| C828 C829 | 24212101 24795471 | CD, 100pF, ±10% EL, 470µF, ±20%, 25V |
| C830 | 24092337 | CD, 220pF, ±10%, 2kV |
| C831 | 24640932 | EL, 100μF, ±20%, 160V |
| C835 | 24797479 | EL, 4.7μF, ±20%, 50V |
| C836 | 24797100 | EL, 10μF, ±20%, 50V |
| C837 | 24797100 | EL, 10μF, ±20%, 50V |
| C838 | 24538474 | PF, 0.47μ F |
| C849 | 24214471 | CD, 470pF, ±10%, 500V |
| C901 | 24700100 | EL, 10μF, ±20%, 250V PF, 2200pF, 1250V |
| C902 C903 | 24095931 24794100 | FF, 2200pF, 1250V EL, 10μF, ±20%, 16V |
| C904 | 24794220 | EL, 22µF, ±20%, 16V |
| C931 | 24212331 | CD, 330pF, ±10% |
| C932 | 24212331 | CD, 330pF, ±10% |
| C933 | 24212331 | CD, 330pF, ±10% |
| C934 | 24794471 | EL, 470μF, ±20%, 16V |
| C936 | 24797479 | EL, 4.7μF, ±20%, 50V |
| CA01 | 24474101 | CD, 100pF, ±10% |
| CA14 | 24232103 | CD, 0.01µF, +80%, -20% |
| CA15 CA16 | 24794100 24232103 | EL, 10μF, ±20%, 16V CD, 0.01μF, +80%, –20% |
| CA18 | 24232103 | CD, 0.01µF, +80%, -20% CD, 0.01µF, +80%, -20% |
| CA19 | 24794470 | EL, 47µF, ±20%, 16V |
| CA20 | 24474101 | CD, 100pF, ±10% |
| CA21 | 24435470 | CD, 47pF, 500V |
| CA22 | 24538104 | PF, 0.1μF (1480TB/TBW) |
| CA24 | 24538104 | PF, 0.1μF (1480TB/TBW) |
| CA37 | 24538104 | PF, 0.1μF |
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| Location | Part No. | Description |
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| No. | . urt IVO. | Societion |
| CA39 | 24474391 | CD, 390pF, ±10% |
| CA39 CA40 | 24474391 | CD, 390pF, ±10% CD, 220pF, ±10% |
| CA40 CA42 | 24538104 | CD, 220βF, ±10% PF, 0.1μF |
| CA43 | 24538104 | PF, 0.1μF |
| CA44 | 24794470 | EL, 47µF, ±20%, 16V |
| 0/144 | 24/344/0 | (1480TB/TBW) |
| CA45 | 24473560 | CD, 56pF |
| CA46 | 24473560 | CD, 56pF |
| CA47 | 24473390 | CD, 39pF (1480RB/RBW) |
| CA48 | 24473390 | CD, 39pF (1480RB/RBW) |
| CA49 | 24475222 | CD, 2200pF |
| CA50 | 24797479 | EL, 4.7μF, ±20%, 50V |
| CB01 | 24212472 | CD, 4700pF, ±10% |
| CB02 | 24212561 | CD, 560pF, ±10% |
| CB03 | 24763331 | EL, 330μF, ±20%, 16V |
| CB04 | 24436181 | CD, 180pF |
| CB05 | 24206010 | EL, 1μF, 50V |
| CR01 | 24794100 | EL, 10μF, ±20%, 16V |
| CR02 | 24797010 | EL, 1μF, ±20%, 50V |
| CR03 | 24797010 | EL, 1μF, ±20%, 50V |
| CR04 | 24797010 | EL, 1μF, ±20%, 50V |
| CR05 | 24797010 | EL, 1μF, ±20%, 50V |
| CR06 | 24797010 | EL, 1μF, ±20%, 50V |
| CR07 | 24797010 | EL, 1µF, ±20%, 50V |
| CR08 | 24473270 | CD, 27pF |
| CV01 | 24794101 | EL, 100µF, ±20%, 16V |
| CV02 | 24793471 | EL, 470μF, ±20%, 10V |
| | | |
| RESISTORS | | |
| R002 | 24366102 | CF, 1k ohm |
| R101 | 24366101 | CF, 100 ohm |
| R103 | 24366103 | CF, 10k ohm |
| R105 | 24366101 | CF, 100 ohm |
| R106 | 24366153 | CF, 15k ohm |
| R109 | 24366563 | |
| R135 | 24366682 | |
| R136 | 24366122 | CF, 1200 ohm |
| R137 | 24366681 | CF, 680 ohm |
| R138 | 24366360 | CF, 36 ohm |
| R174 | 24366392 | CF, 3900 ohm |
| R175 | 24366471 | CF, 470 ohm |
| R179 | 24366201 | CF, 200 ohm |
| R180 | 24366331 | CF, 330 ohm |
| R181 | 24366221 | CF, 220 ohm |
| R182 | 24366820 | • |
| R185 | 24366101 | CF, 100 ohm |
| R186 | 24366391 | CF, 390 ohm |
| R187 | 24366223 | CF, 22k ohm |
| R188 | 24366223 | • |
| R189 | 24366102 | CF, 1k ohm |
| R191 | 24942226 | CC, 22M ohm, 1/2W |
| R201 | 24366222 | CF, 2200 ohm |
| R204 | 24366751 | CF, 750 ohm (1480TB/TBW) |
| R205 | 24366303 | CF, 30k ohm |
| R206 | 24366271 | CF, 270 ohm |
| R207 | 24366271 | CF, 270 ohm |
| R208 | 24366271 | CF, 270 ohm |
| R209 | 24366223 | |
| R210 | 24366101 | CF, 100 ohm |
| R211 | 24366101 | CF, 100 ohm |
| R212 | 24552221 | |
| R213 | 24366103 | • |
| R214 | 24366472 | CF, 4700 ohm |
| R215 | 24366561 | CF, 560 ohm |
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| Location No. | Part No. | Description |
| R216 | 24366102 | CF, 1k ohm |
| R217 | | CF, 100 ohm |
| R218 | | CF, 820k ohm |
| R219 | | CF, 150 ohm |
| R220 R221 | 24366102 | CF, 1k ohm (1480TB/TBW) |
| R222 | | CF, 100k ohm CF, 4700 ohm |
| R223 | | CF, 2200 ohm |
| R224 | 24366123 | |
| R225 | 24366102 | |
| R240 | | CF, 6800 ohm |
| R241 | 24366223 | |
| R244 | | CF, 1500 ohm |
| R316 | 24366102 | · |
| R317 | 24366563 | |
| R318 R319 | | CF, 43k ohm |
| R320 | 24352132 | OMF, 1300 ohm, 1/2W OMF, 270 ohm, 2W |
| R321 | | CF, 39k ohm |
| R322 | 24366224 | |
| R323 | 24322229 | , |
| R325 | 24366203 | |
| ⚠ R327 | 24339479 | MF, 4.7 ohm, 2W |
| R330 | 24321109 | , |
| R333 | 24366222 | |
| R360 | 24366622 | ,,, |
| R410 | 24552472 | , ,,= |
| R411 R412 | 24366561 | - · · · · · · · · · · · · · · · |
| R413 | 24322129 24382471 | |
| R414 | 24366181 | CF, 180 ohm |
| R416 | 24510182 | Cement, 1800 ohm, 5W |
| R440 | 24366103 | CF, 10k ohm |
| △R444 | 24338398 | MF, 0.39 ohm, 1W |
| R445 | 24552331 | OMF, 330 ohm, 1/2W |
| R446 | 24383331 | OMF, 330 ohm, 2W |
| △ R448 | 24338338 | MF, 0.33 ohm, 1W |
| R470 | 24338828 | , |
| R471 R472 | 24552101 24376393 | ,, ., |
| R474 | 24376393 | , |
| R475 | | CF, 1k ohm |
| R477 | 24366203 | |
| R517 | 24366103 | CF, 10k ohm |
| R580 | 24366103 | CF, 10k ohm |
| R601 | 24366339 | CF, 3.3 ohm |
| R602 | 24366123 | CF, 12k ohm |
| R603 | 24366182 | CF, 1800 ohm |
| R604 | 24366103 | CF, 10k ohm |
| R605 R607 | 24552331 | OMF, 330 ohm, 1/2W CF, 10k ohm |
| R610 | 24366103 24366332 | CF, 10k ohm CF, 3300 ohm |
| R614 | 24366562 | CF, 5600 ohm |
| R615 | 24366562 | • |
| R616 | 24366562 | CF, 5600 ohm |
| R618 | 24366474 | CF, 470k ohm |
| R623 | | CF, 6800 ohm |
| R624 | 24366681 | CF, 680 ohm |
| R625 | 24366104 | CF, 100k ohm |
| R626 | 24366103 | CF, 10k ohm |
| R628 | 24366104 | CF, 100k ohm |
| R629 | 24366153 | CF, 15k ohm |
| R630 ∆R801 | | CF, 3900 ohm Metal-Glazed Resistor, |
| 1001 | 24003334 | 2.2M ohm, 1/2W |
| | | 2.2.W OINII, 1/2VV |

| Location | Part No. | Description |
|--------------|----------------------|---------------------------------------|
| No. | | |
| R803 | 24366824 | CF, 820k ohm |
| R804 | 24366824 24366561 | CF, 560 ohm |
| R805 | 24377394 | CF, 390k ohm, 1W |
| R806 | 24383470 | |
| R807 | 24383330 | OMF, 33 ohm, 2W |
| R808 | 24531100 | |
| R809 | 24366561 | |
| R810 | | CF, 560 ohm |
| R811 R812 | 24322398 | MF, 0.39 ohm, 1W CF, 47 ohm |
| R813 | | CF, 560 ohm |
| R814 | | |
| R815 | 24366561 | CF, 1k ohm CF, 560 ohm |
| R816 | 24366103 | CF, 10k ohm |
| R817 | 24366102 | CF, 1k ohm |
| R818 | | CF, 1k ohm |
| R819 | | OMF, 6.8 ohm, 1/2W |
| R820 | | CF, 560 ohm |
| R825 | | CF, 4700 ohm |
| R828 | | CF, 3.3 ohm |
| R842 R843 | 24366681 | CF, 680 ohm CF, 820 ohm |
| ∩ R844 | 24300821 | |
| 2311044 | 24003007 | 8.2M ohm, 1W |
| R848 | 24366392 | CF, 3900 ohm |
| R860 | 24366122 | |
| R865 | 24366681 | |
| R866 | | CF, 470 ohm |
| R867 | 24366103 | |
| R868 | 24366472 | CF, 4700 ohm |
| R870 | 24383822 | , |
| R871 | 24366472 | , |
| R872 | 24510479 | ,, |
| R878 R879 | 24531270 24366472 | |
| R884 | 24500472 | · · |
| △R890 | 24019419 | · · · · · · · · · · · · · · · · · · · |
| R893 | 24366103 | |
| R901 | 24552272 | |
| R902 | 24552272 | OMF, 2700 ohm, 1/2W |
| R903 | 24552272 | |
| R904 | 24366102 | CF, 1k ohm CF, 2.2 ohm |
| R905 | 24366229 | |
| △ R920 | 24000884 | |
| R928 | 24366101 | CF, 100 ohm |
| R930 R931 | 24366681 | CF, 680 ohm |
| R932 | 24366102 24366361 | CF, 1k ohm CF, 360 ohm |
| R933 | 24366681 | CF, 680 ohm |
| R934 | 24366681 | CF, 680 ohm |
| R935 | 24366681 | CF, 680 ohm |
| R936 | 24366471 | CF, 470 ohm |
| R937 | 24366471 | CF, 470 ohm |
| R938 | 24366471 | CF, 470 ohm |
| R947 | 24552820 | OMF, 82 ohm, 1/2W |
| R948 | 24366101 | CF, 100 ohm |
| R961 | 24366270 | CF, 27 ohm |
| R962 | 24366270 | CF, 27 ohm |
| R963 | 24366270 | CF, 27 ohm |
| R966 R967 | 24366101 | |
| R991 | 24366101 24382183 | CF, 100 ohm OMF, 18k ohm, 1W |
| R992 | 24382183 | · · · · · · · · · · · · · · · · · · · |
| R993 | 24382183 | |
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| Location | Part No. | Description |
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| No. | T GIT INO. | 200011911011 |
| RA01 | 24366103 | CF, 10k ohm |
| RA02 | 24366472 | |
| RA03 | 24366103 | • |
| RA05 | 24366103 | |
| RA06 | | CF, 10k ohm |
| RA07 | | CF, 4700 ohm MF, 100k ohm, ±1%, 1/4W |
| RA09 RA10 | 240 1900 1 | CE 1k ohm (1/80TR/TRW) |
| RA11 | 24366182 | CF, 1k ohm (1480TB/TBW) CF, 1800 ohm (1480TB/TBW) |
| RA12 | 24366103 | |
| RA14 | 24366103 | CF, 10k ohm |
| RA15 | 24366331 | CF, 330 ohm |
| RA16 | 24366331 | CF, 330 ohm |
| RA24 | | CF, 2.2M ohm |
| RA25 | 24366333 | |
| RA27 | 24366333 | CF, 33k ohm MF, 18k ohm, ±1%, 1/4W |
| RA28 RA33 | | CF, 390 ohm |
| RA34 | 24300391 | |
| RA35 | 24366223 | |
| RA37 | 24366273 | |
| RA40 | 24366102 | CF, 1k ohm (1480TB/TBW) |
| RA41 | | CF, 10k ohm |
| RA42 | | CF, 10k ohm |
| RA45 | 24366103 | • |
| RA49 | | CF, 10k ohm |
| RA54 RA57 | ∠43004/2 24366102 | CF, 4700 ohm CF, 10k ohm |
| RA57 | | CF, 10k offin CF, 2200 ohm |
| RA60 | 24366331 | CF, 330 ohm |
| RA61 | | CF, 10k ohm |
| RA62 | 24366223 | CF, 22k ohm |
| RA64 | 24366103 | CF, 10k ohm |
| RA65 | | CF, 10k ohm |
| RA70 | 24366332 | CF, 3300 ohm CF, 6800 ohm |
| RA71 RA72 | | CF, 6800 ohm CF, 20k ohm |
| RA72 | | CF, 20k ohm CF, 10k ohm |
| RA78 | 24366102 | CF, 1k ohm |
| RA81 | | CF, 470 ohm |
| RA86 | 24366103 | CF, 10k ohm |
| RA88 | 24366103 | CF, 10k ohm |
| RA90 | 24366103 | |
| RA91 | 24366102 | |
| RA96 | 24366123 | |
| RA97 RB01 | 24366152 24366223 | |
| RB02 | 24366392 | |
| RB03 | 24366392 | |
| RB04 | 24366123 | CF, 12k ohm |
| RB05 | 24366333 | CF, 33k ohm |
| RB06 | 24366564 | CF, 560k ohm |
| RB07 | 24366182 | |
| RB08 | 24366471 | CF, 470 ohm |
| RE01 | 24366391 | |
| RR01 | 24366472 24366472 | |
| RR02 RR03 | 24366103 | • |
| RR04 | 24366333 | |
| RR05 | 24366103 | |
| RR06 | 24366102 | - |
| RR16 | 24366331 | CF, 330 ohm |
| RR17 | 24366331 | CF, 330 ohm |
| RR18 | 24366331 | CF, 330 ohm |
| ı | | |

| RV01 | | | | |
|--|----------|---------------------------------------|----------|---------------|
| RV01 RV02 RV02 RV04 RV02 RV04 RV04 RV04 RV04 RV05 RV05 RV08 RV05 RV08 RV08 RV08 RV08 RV09 RV09 RV10 RV10 RV10 RV11 RV11 RV11 RV11 RV11 | | Description | Part No. | Location |
| RV02 RV04 RV04 RV04 24366800 CF, 68 ohm RV05 24366101 CF, 10k ohm RV08 RV09 24366750 CF, 75 ohm RV10 RV10 RV11 24366101 CF, 100 ohm RV11 24366101 CF, 100 ohm RV12 24366750 CF, 75 ohm RV11 RV12 24366750 CF, 75 ohm RV13 RV13 RV13 RV13 RV14 24366750 CF, 75 ohm RV13 RV14 24366750 CF, 75 ohm RV15 RV15 RV26 RV26 RV26 RV26 RV27 RV28 RV27 RV28 RV28 RV28 RV28 RV28 RV28 RV28 RV28 | | • | | NO. |
| RV02 RV04 RV04 RV04 24366800 CF, 68 ohm RV05 24366101 CF, 10k ohm RV08 RV09 24366750 CF, 75 ohm RV10 RV10 RV11 24366101 CF, 100 ohm RV11 24366101 CF, 100 ohm RV12 24366750 CF, 75 ohm RV11 RV12 24366750 CF, 75 ohm RV13 RV13 RV13 RV13 RV14 24366750 CF, 75 ohm RV13 RV14 24366750 CF, 75 ohm RV15 RV15 RV26 RV26 RV26 RV26 RV27 RV28 RV27 RV28 RV28 RV28 RV28 RV28 RV28 RV28 RV28 | w | OMF. 100 ohm. 1/2\ | 24552101 | RV01 |
| RV04 RV05 | | | | |
| RV05 RV08 RV08 24366750 CF, 75 ohm RV09 24366101 CF, 100 ohm RV10 24366750 CF, 75 ohm RV11 24366750 CF, 75 ohm RV11 24366750 CF, 75 ohm RV11 24366750 CF, 75 ohm RV12 24366750 CF, 75 ohm RV13 24366750 CF, 75 ohm RV14 24366750 CF, 75 ohm RV15 24366750 CF, 75 ohm RV16 RV14 24366750 CF, 75 ohm RV26 24366391 CF, 390 ohm RV27 24366391 CF, 390 ohm RV28 23221803 Coil, Choke, TLN3040D Coil, Peaking, TRF4R47AJ L102 23238713 Coil, Peaking, TRF4100AF L204 23289100 Coil, Peaking, TRF4100AF L204 23289100 Coil, Peaking, TRF4100AF L205 23289680 Coil, Peaking, TRF4680AF L311 23103859 Coil (Ferrite Bead), TEM20 L408 23221722 Coil, Choke, TLN3142D L410 23289100 Coil, Peaking, TRF4100AF L811 23103859 Coil (Ferrite Bead), TEM20 L821 23280016 Coil, Peaking, TRF4100AZ L823 23103859 Coil (Ferrite Bead), TEM20 L821 23280016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L826 2328016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L826 2328016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L826 23289109 Coil, Peaking, TRF4100AF LA03 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23238708 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △T401 23224983 Transformer, Horiz. Drive, TLN1039 △T461 232311929 Line Filter, TRF3130 | | | | |
| RV08 RV09 RV09 RV10 RV10 RV10 RV10 RV11 RV10 RV11 RV11 | | | | |
| RV09 RV10 RV10 RV10 RV11 RV11 RV11 RV11 RV11 | | | | |
| RV10 RV11 24366750 CF, 75 ohm RV11 24366101 CF, 100 ohm RV12 24366750 CF, 75 ohm RV13 24366101 CF, 100 ohm RV14 24366750 CF, 75 ohm RV14 24366750 CF, 75 ohm RV15 24366750 CF, 75 ohm RV15 24366750 CF, 75 ohm RV15 24366750 CF, 75 ohm RV26 24366391 CF, 390 ohm RV27 24366391 CF, 390 ohm RV28 24366391 CF, 390 ohm RV28 24366391 CF, 390 ohm RV28 COILS & TRANSFORMERS L101 2323858 Coil, Peaking, TRF4R47AJ L102 23221803 Coil, Choke, TLN3040D L105 23261985 Coil, RF Choke, TRF9221 L107 23238713 Coil, Peaking, TRF4100AF L202 23289100 Coil, Peaking, TRF4100AF L204 23289100 Coil, Peaking, TRF4680AF L311 23103859 Coil (Ferrite Bead), TEM20 L405 23289100 Coil, Peaking, TRF4100AF L811 23103859 Coil (Ferrite Bead), TEM20 L408 23221739 Coil, Choke, TLN3142D L410 23289100 Coil, Peaking, TRF4100AF L811 23103859 Coil (Ferrite Bead), TEM20 L821 23280016 Coil, Peaking, TRF4100AZ L823 23103859 Coil (Ferrite Bead), TEM20 L824 23280016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L829 23103859 Coil (Ferrite Bead), TEM20 L820 23289109 Coil, Peaking, TRF4100AZ L820 23289109 Coil, Peaking, TRF4100AF L990 23289100 Coil, Peaking, TRF4100AF LA02 23289109 Coil, Peaking, TRF410AF LA03 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23238708 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △T401 23224983 Transformer, Horiz, Drive, TLN1039 △T461 232311929 Line Filter, TRF3130 | | | | |
| RV11 24366101 CF, 100 ohm RV12 24366750 CF, 75 ohm RV13 24366101 CF, 100 ohm RV14 24366750 CF, 75 ohm RV15 24366750 CF, 75 ohm RV26 24366391 CF, 390 ohm RV27 24366391 CF, 390 ohm RV28 24366391 CF, 390 ohm COILS & TRANSFORMERS L101 23221803 Coil, Peaking, TRF4R47AJ L102 23221803 Coil, Choke, TLN3040D L105 23261985 Coil, RF Choke, TRF9221 L107 23238713 Coil, Peaking, TRF4120AJ L161 23262813 Coil, IF, TRF1077D L202 23289100 Coil, Peaking, TRF4100AF L204 23289100 Coil, Peaking, TRF4100AF L205 23289680 Coil, Peaking, TRF4680AF L311 23103859 Coil (Ferrite Bead), TEM20 L405 23221739 Coil, Choke, TLN3142D L405 23221739 Coil, Choke, TLN3142D L406 23289100 Coil, Peaking, TRF4100AF L811 23103859 Coil (Ferrite Bead), TEM20 L821 23280016 Coil, Peaking, TRF4100AZ L823 23103859 Coil (Ferrite Bead), TEM20 L826 23280016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L829 23103859 Coil (Ferrite Bead), TEM20 L829 23103859 Coil (Ferrite Bead), TEM20 L820 23289100 Coil, Peaking, TRF4100AF LA02 23289109 Coil, Peaking, TRF4100AF LA03 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 LA05 23289109 Coil, Peaking, TRF4100AF LA06 23289109 Coil, Peaking, TRF4100AF LA07 23289109 Coil, Peaking, TRF4100AF LA08 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA08 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △ T401 23224983 Transformer, Horiz, Drive, TLN1039 △ T461 23236501 Transformer, Flyback, TFB4124AE △ T801 23211929 Line Filter, TRF3130 | | | | |
| RV12 24366750 CF, 75 ohm RV13 24366101 CF, 100 ohm RV14 24366750 CF, 75 ohm RV15 24366750 CF, 75 ohm RV26 24366391 CF, 390 ohm RV27 24366391 CF, 390 ohm RV28 24366391 CF, 390 ohm COILS & TRANSFORMERS L101 2323858 Coil, Peaking, TRF4R47AJ L102 23221803 Coil, Choke, TLN3040D L105 23261985 Coil, RF Choke, TRF9221 L107 23238713 Coil, Peaking, TRF4120AJ L161 23262813 Coil, IF, TRF1077D L202 23289100 Coil, Peaking, TRF4100AF L204 23289100 Coil, Peaking, TRF4100AF L205 23289680 Coil, Peaking, TRF4680AF L311 23103859 Coil (Ferrite Bead), TEM20 L405 23221739 Coil, Choke, TLN3142D L406 23289100 Coil, Peaking, TRF4100AF L811 23103859 Coil (Ferrite Bead), TEM20 L821 23280016 Coil, Peaking, TRF4100AZ L823 23103859 Coil (Ferrite Bead), TEM20 L826 23280016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L826 23280016 Coil, Peaking, TRF4100AF L829 23103859 Coil (Ferrite Bead), TEM20 L826 2328010 Coil, Peaking, TRF4100AF L801 23200691 Coil, Peaking, TRF4100AF L802 23289100 Coil, Peaking, TRF4100AF LA02 23289100 Coil, Peaking, TRF4100AF LA03 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 LA05 23289109 Coil, Peaking, TRF4100AF LA06 23289109 Coil, Peaking, TRF4100AF LA07 23289109 Coil, Peaking, TRF4100AF LA08 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △ T401 23224983 Transformer, Horiz. Drive, TLN1039 △ T461 23236501 Transformer, Flyback, TFB4124AE | | • | | |
| RV13 | | | | |
| RV14 RV15 RV16 RV16 RV26 RV26 24366750 CF, 75 ohm RV26 24366391 CF, 390 ohm RV27 24366391 CF, 390 ohm RV28 COILS & TRANSFORMERS L101 23238558 Coil, Peaking, TRF4R47AJ L102 23221803 Coil, Choke, TLN3040D L105 23261985 Coil, RF Choke, TRF9221 L107 23238713 Coil, Peaking, TRF4120AJ L161 23262813 Coil, IF, TRF1077D L202 23289100 Coil, Peaking, TRF4100AF L204 23289100 Coil, Peaking, TRF4100AF L311 23103859 Coil (Ferrite Bead), TEM20 L405 23221739 Coil, Choke, TLN3142D L405 23221722 Coil, Choke, TRF9252D L408 23221722 Coil, Choke, TRF9252D L408 23221722 Coil, Choke, TRF4100AF L811 23103859 Coil (Ferrite Bead), TEM20 L821 23280016 Coil, Peaking, TRF4100AF L823 23103859 Coil (Ferrite Bead), TEM20 L826 23280016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L826 23289109 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L820 C3289109 Coil, Peaking, TRF4100AF L901 23289100 Coil, Peaking, TRF4100AF Coil, | | • | | |
| RV15 RV26 RV26 RV27 RV28 RV27 RV28 RV28 RV28 RV28 RV28 RV28 RV28 RV28 | | | | |
| RV26 RV27 RV28 24366391 CF, 390 ohm COILS & TRANSFORMERS L101 L102 L102 L105 L105 L107 L107 L107 L101 L202 L107 L101 L202 L107 L202 L108 L101 L202 L2328713 L101 L202 L23289100 L204 L23289100 L204 L23289100 L204 L205 L23289680 C0il, Peaking, TRF4100AF L205 L23289680 C0il, Peaking, TRF4100AF L311 L3103859 C0il (Ferrite Bead), TEM20 L405 L3221739 L408 L311 L3103859 C0il, Choke, TLN3142D L400 L32289100 C0il, Peaking, TRF4100AF L811 L3103859 C0il (Ferrite Bead), TEM20 L821 L821 L32103859 C0il (Ferrite Bead), TEM20 L823 L826 L823 L826 L826 L8280016 C0il, Peaking, TRF4100AZ L829 L826 L829 L866 L328929 C0il, Peaking, TRF4100AZ L829 L866 L328929 C0il, Peaking, TRF4100AZ L829 L866 L328929 C0il, Peaking, TRF4100AF L890 L3289100 C0il, Peaking, TRF4100AF L802 L3289109 C0il, Peaking, TRF4100AF L803 L3103859 C0il (Ferrite Bead), TEM20 (1480TB/TBW) LA05 L3238708 C0il (Ferrite Bead), TEM20 (1480TB/TBW) LA06 L32324983 Transformer, Horiz. Drive, TLN1039 △T461 L3211929 Line Filter, TRF3130 | | | | |
| RV27 RV28 24366391 CF, 390 ohm COILS & TRANSFORMERS L101 23238558 L102 23221803 Coil, Peaking, TRF4R47AJ L102 23221895 Coil, RF Choke, TLN3040D L105 L107 23238713 Coil, Peaking, TRF4120AJ L161 23262813 Coil, Peaking, TRF4120AJ L202 23289100 Coil, Peaking, TRF4100AF L204 23289100 Coil, Peaking, TRF4100AF L205 23289680 Coil, Peaking, TRF4100AF L311 23103859 Coil (Ferrite Bead), TEM20 L405 L321739 Coil, Choke, TLN3142D L405 23221739 Coil, Choke, TLN3142D L410 23289100 Coil, Peaking, TRF4100AF L811 23103859 Coil (Ferrite Bead), TEM20 L821 23280016 Coil, Peaking, TRF4100AZ L823 23103859 Coil (Ferrite Bead), TEM20 L826 23280016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 Coil, Peaking, TRF4100AZ L829 23103859 Coil, Peaking, TRF4100AF L801 23289100 Coil, Peaking, TRF4100AF L802 23289100 Coil, Peaking, TRF4100AF L803 2328929 Coil, Peaking, TRF4100AF L804 23289100 Coil, Peaking, TRF4100AF L805 23289100 Coil, Peaking, TRF4100AF L806 2328929 Coil, Peaking, TRF4100AF L801 23289100 Coil, Peaking, TRF4100AF L802 23289100 Coil, Peaking, TRF410AF L803 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23238708 Coil, Peaking, TRF4330AJ (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △T401 23224983 Transformer, Horiz, Drive, TLN1039 △T461 23236501 Transformer, Flyback, TFB4124AE △T801 Line Filter, TRF3130 | | • | | |
| COILS & TRANSFORMERS L101 | | | | |
| COILS & TRANSFORMERS L101 | | CF, 390 onm | 24366391 | |
| L101 23238558 Coil, Peaking, TRF4R47AJ L102 23221803 Coil, Choke, TLN3040D L105 23261985 Coil, RF Choke, TRF9221 L107 23238713 Coil, Peaking, TRF4120AJ L161 23262813 Coil, IF, TRF1077D L202 23289100 Coil, Peaking, TRF4100AF L204 23289100 Coil, Peaking, TRF4100AF L205 23289680 Coil, Peaking, TRF4680AF L311 23103859 Coil (Ferrite Bead), TEM20 L405 23221739 Coil, Choke, TLN3142D L406 23221722 Coil, Choke, TLN3142D L410 23289100 Coil, Peaking, TRF4100AF L811 23103859 Coil (Ferrite Bead), TEM20 L821 23280016 Coil, Peaking, TRF4100AZ L823 23103859 Coil (Ferrite Bead), TEM20 L826 23280016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L829 23103859 Coil (Ferrite Bead), TEM20 L829 23289100 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L820 23289100 Coil, Peaking, TRF42R2AF L901 23289100 Coil, Peaking, TRF4100AF LA02 23289100 Coil, Peaking, TRF4100AF LA03 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △ T401 23224983 Transformer, Horiz. Drive, TLN1039 △ T461 23236501 Transformer, Flyback, TFB4124AE | | CF, 390 onm | 24366391 | RV28 |
| L101 23238558 Coil, Peaking, TRF4R47AJ L102 23221803 Coil, Choke, TLN3040D L105 23261985 Coil, RF Choke, TRF9221 L107 23238713 Coil, Peaking, TRF4120AJ L161 23262813 Coil, IF, TRF1077D L202 23289100 Coil, Peaking, TRF4100AF L204 23289100 Coil, Peaking, TRF4100AF L205 23289680 Coil, Peaking, TRF4680AF L311 23103859 Coil (Ferrite Bead), TEM20 L405 23221739 Coil, Choke, TLN3142D L406 23221722 Coil, Choke, TLN3142D L410 23289100 Coil, Peaking, TRF4100AF L811 23103859 Coil (Ferrite Bead), TEM20 L821 23280016 Coil, Peaking, TRF4100AZ L823 23103859 Coil (Ferrite Bead), TEM20 L826 23280016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L829 23103859 Coil (Ferrite Bead), TEM20 L829 23289100 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L820 23289100 Coil, Peaking, TRF42R2AF L901 23289100 Coil, Peaking, TRF4100AF LA02 23289100 Coil, Peaking, TRF4100AF LA03 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △ T401 23224983 Transformer, Horiz. Drive, TLN1039 △ T461 23236501 Transformer, Flyback, TFB4124AE | | | | |
| L101 23238558 Coil, Peaking, TRF4R47AJ L102 23221803 Coil, Choke, TLN3040D L105 23261985 Coil, RF Choke, TRF9221 L107 23238713 Coil, Peaking, TRF4120AJ L161 23262813 Coil, IF, TRF1077D L202 23289100 Coil, Peaking, TRF4100AF L204 23289100 Coil, Peaking, TRF4100AF L205 23289680 Coil, Peaking, TRF4680AF L311 23103859 Coil (Ferrite Bead), TEM20 L405 23221739 Coil, Choke, TRF9252D L408 23221722 Coil, Choke, TRF9252D L408 23221722 Coil, Choke, TLN3142D L410 23289100 Coil, Peaking, TRF4100AF L811 23103859 Coil (Ferrite Bead), TEM20 L821 23280016 Coil, Peaking, TRF4100AZ L823 23103859 Coil (Ferrite Bead), TEM20 L826 2328016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L826 23289229 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L806 2328929 Coil, Peaking, TRF4100AF LA02 23289100 Coil, Peaking, TRF4100AF LA03 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △ T401 23224983 Transformer, Horiz, Drive, TLN1039 △ T461 23236501 Transformer, Flyback, TFB4124AE | | MERS | RANSFOR | COILS & TE |
| L102 L105 L105 L105 L107 L107 L23238713 Coil, RF Choke, TRF9221 L107 L23238713 Coil, Peaking, TRF4120AJ L161 L23262813 Coil, IF, TRF1077D L202 L23289100 Coil, Peaking, TRF4100AF L204 L23289100 Coil, Peaking, TRF4100AF L205 L23289680 Coil, Peaking, TRF4680AF L311 L3103859 Coil (Ferrite Bead), TEM20 L408 L3221732 Coil, Choke, TLN3142D L410 L3289100 Coil, Peaking, TRF4100AF L811 L821 L821 L821 L821 L821 L823 L823 L823 L826 L823 L826 L829 L826 L827 L827 L828 L829 L828 L828 | R47AJ | | | |
| L105 L107 L107 L23238713 Coil, Peaking, TRF4120AJ L161 L23262813 Coil, IF, TRF1077D L202 L23289100 Coil, Peaking, TRF4100AF L204 L204 L23289100 Coil, Peaking, TRF4100AF L205 L23289680 Coil, Peaking, TRF4680AF L311 L3103859 Coil (Ferrite Bead), TEM20 L408 L3221722 Coil, Choke, TRF9252D L408 L3221722 Coil, Choke, TRF9252D L410 L3289100 Coil, Peaking, TRF4100AF L811 L821 L821 L821 L821 L821 L823 L823 L823 L823 L823 Coil (Ferrite Bead), TEM20 L824 L825 L826 L826 L829 L829 Coil, Peaking, TRF4100AZ L829 L829 L826 L829 L826 L829 L826 L829 L826 L829 Coil, Peaking, TRF4100AZ L829 L829 L820 Coil, Peaking, TRF4100AZ L829 L820 Coil, Peaking, TRF42R2AF L990 L3289100 Coil, Peaking, TRF4100AF LA02 L3289109 Coil, Peaking, TRF4100AF LA03 LA04 L3103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 LA06 L3238708 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 L3238708 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 L3238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △T401 L3224983 Transformer, Horiz, Drive, TLN1039 △T461 L3236501 Transformer, Flyback, TFB4124AE L3211929 Line Filter, TRF3130 | | | | |
| L107 L161 23238713 Coil, Peaking, TRF4120AJ L161 23262813 Coil, IF, TRF1077D L202 23289100 Coil, Peaking, TRF4100AF L204 23289100 Coil, Peaking, TRF4100AF L205 23289680 Coil, Peaking, TRF4680AF L311 23103859 Coil (Ferrite Bead), TEM20 L405 23221739 Coil, Choke, TRF9252D L408 23221722 Coil, Choke, TLN3142D L410 23289100 Coil, Peaking, TRF4100AF L811 23103859 Coil (Ferrite Bead), TEM20 L821 23280016 Coil, Peaking, TRF4100AZ L823 23103859 Coil (Ferrite Bead), TEM20 L826 23280016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L866 23289229 Coil, Peaking, TRF42R0AF L901 23289109 Coil, Peaking, TRF4100AF LA02 23289109 Coil, Peaking, TRF4100AF LA03 23103859 Coil (Ferrite Bead), TEM20 Coil, Peaking, TRF41R0AF LA04 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23238708 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) AT401 23224983 Transformer, Horiz, Drive, TLN1039 Transformer, Flyback, TFB4124AE | | | | |
| L161 23262813 Coil, IF, TRF1077D L202 23289100 Coil, Peaking, TRF4100AF L204 23289100 Coil, Peaking, TRF4100AF L205 23289680 Coil, Peaking, TRF4680AF L311 23103859 Coil (Ferrite Bead), TEM20 L405 23221739 Coil, Choke, TRF9252D L408 23221722 Coil, Choke, TLN3142D L410 23289100 Coil, Peaking, TRF4100AF L811 23103859 Coil (Ferrite Bead), TEM20 L821 23280016 Coil, Peaking, TRF4100AZ L823 23103859 Coil (Ferrite Bead), TEM20 L826 23280016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L829 23103859 Coil (Ferrite Bead), TEM20 L866 23289229 Coil, Peaking, TRF42R2AF △L901 23200691 Coil, Degaussing, TSB-2229 L990 23289100 Coil, Peaking, TRF4100AF LA02 23289109 Coil, Peaking, TRF4100AF LA03 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △T401 23224983 Transformer, Horiz, Drive, TLN1039 △T461 23236501 Transformer, Flyback, TFB4124AE | | | - | |
| L202 23289100 Coil, Peaking, TRF4100AF L204 23289100 Coil, Peaking, TRF4100AF L205 23289680 Coil, Peaking, TRF4680AF L311 23103859 Coil (Ferrite Bead), TEM20 L405 23221739 Coil, Choke, TRF9252D L408 23221722 Coil, Choke, TRF9252D L410 23289100 Coil, Peaking, TRF4100AF L811 23103859 Coil (Ferrite Bead), TEM20 L821 23280016 Coil, Peaking, TRF4100AZ L823 23103859 Coil (Ferrite Bead), TEM20 L826 23280016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L829 23103859 Coil (Ferrite Bead), TEM20 L866 23289229 Coil, Peaking, TRF42R2AF △L901 23200691 Coil, Degaussing, TSB-2229 L990 23289109 Coil, Peaking, TRF4100AF LA02 23289109 Coil, Peaking, TRF4100AF LA03 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △T401 23224983 Transformer, Horiz, Drive, TLN1039 △T461 23236501 Transformer, Flyback, TFB4124AE | 120/10 | | | |
| L204 23289100 Coil, Peaking, TRF4100AF L205 23289680 Coil, Peaking, TRF4680AF L311 23103859 Coil (Ferrite Bead), TEM20 L405 23221739 Coil, Choke, TRF9252D L408 23221722 Coil, Choke, TLN3142D L410 23289100 Coil, Peaking, TRF4100AF L811 23103859 Coil (Ferrite Bead), TEM20 L821 23280016 Coil, Peaking, TRF4100AZ L823 23103859 Coil (Ferrite Bead), TEM20 L826 23280016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L826 23289229 Coil, Peaking, TRF420AZ L829 23103859 Coil, Peaking, TRF42R2AF △L901 23200691 Coil, Degaussing, TSB-2229 L990 23289100 Coil, Peaking, TRF4100AF LA02 23289109 Coil, Peaking, TRF41R0AF LA03 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △T401 23224983 Transformer, Horiz, Drive, TLN1039 △T461 23236501 Transformer, Flyback, TFB4124AE | 1100AF | | | |
| L205 L311 L311 L3103859 L311 L405 L405 L3221739 Coil (Ferrite Bead), TEM20 L408 L3221722 Coil, Choke, TRF9252D L408 L3221722 Coil, Choke, TLN3142D L410 L3289100 Coil, Peaking, TRF4100AF L811 L3103859 Coil (Ferrite Bead), TEM20 L821 L823 L823 L826 L826 L829 L826 L829 L829 L829 L829 L829 L829 L829 L820016 Coil, Peaking, TRF4100AZ L829 L829 L829 L829 L820016 Coil, Peaking, TRF4100AZ L829 L829 L820 L820 Coil (Ferrite Bead), TEM20 L820 L820 Coil, Peaking, TRF42R2AF L901 L3200691 Coil, Degaussing, TSB-2229 L900 L3289109 Coil, Peaking, TRF4100AF LA02 L32103859 Coil (Ferrite Bead), TEM20 LA04 L3103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 LA06 LA06 LA07 LA08 LA08 LA08 LA09 LA09 LA09 LA09 LA09 LA09 LA09 LA09 | | | | |
| L311 23103859 Coil (Ferrite Bead), TEM20 L405 23221739 Coil, Choke, TRF9252D L408 23221722 Coil, Choke, TLN3142D L410 23289100 Coil, Peaking, TRF4100AF L811 23103859 Coil (Ferrite Bead), TEM20 L821 23280016 Coil, Peaking, TRF4100AZ L823 23103859 Coil (Ferrite Bead), TEM20 L826 23280016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L829 23103859 Coil (Ferrite Bead), TEM20 L820 L820 Coil, Peaking, TRF42R2AF △L901 23200691 Coil, Degaussing, TSB-2229 L990 23289100 Coil, Peaking, TRF4100AF LA02 23289109 Coil, Peaking, TRF4100AF LA03 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △T401 23224983 Transformer, Horiz, Drive, TLN1039 △T461 23236501 Transformer, Flyback, TFB4124AE | | | | |
| L405 L408 L408 L408 L408 L408 L410 L410 L410 L410 L410 L410 L410 L410 | | | | |
| L408 L410 L410 L410 L410 L3289100 Coil, Peaking, TRF4100AF L811 L3103859 Coil (Ferrite Bead), TEM20 L821 L823 L823 L826 L826 L829 L829 L829 L829 L829 L829 L829 L829 | | | | |
| L410 23289100 Coil, Peaking, TRF4100AF L811 23103859 Coil (Ferrite Bead), TEM20 L821 23280016 Coil, Peaking, TRF4100AZ L823 23103859 Coil (Ferrite Bead), TEM20 L826 23280016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L866 23289229 Coil, Peaking, TRF42R2AF ▲ L901 23200691 Coil, Degaussing, TSB-2229 L990 23289100 Coil, Peaking, TRF4100AF LA02 23289109 Coil, Peaking, TRF4100AF LA03 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) ▲ T401 23224983 Transformer, Horiz, Drive, TLN1039 ▲ T461 23236501 Transformer, Flyback, TFB4124AE | | | | |
| L811 23103859 Coil (Ferrite Bead), TEM20 L821 23280016 Coil, Peaking, TRF4100AZ L823 23103859 Coil (Ferrite Bead), TEM20 L826 23280016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L866 23289229 Coil, Peaking, TRF42R2AF ▲ L901 23200691 Coil, Degaussing, TSB-2229 L990 23289100 Coil, Peaking, TRF4100AF LA02 23289109 Coil, Peaking, TRF41R0AF LA03 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) ▲ T401 23224983 Transformer, Horiz, Drive, TLN1039 ▲ T461 23236501 Transformer, Flyback, TFB4124AE △ T801 23211929 Line Filter, TRF3130 | | | | |
| L821 23280016 Coil, Peaking, TRF4100AZ L823 23103859 Coil (Ferrite Bead), TEM20 L826 23280016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L866 23289229 Coil, Peaking, TRF42R2AF ▲ L901 23200691 Coil, Degaussing, TSB-2229 L990 23289100 Coil, Peaking, TRF4100AF LA02 23289109 Coil, Peaking, TRF41R0AF LA03 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) ▲ T401 23224983 Transformer, Horiz. Drive, TLN1039 ▲ T461 23236501 Transformer, Flyback, TFB4124AE △ T801 23211929 Line Filter, TRF3130 | | | | |
| L823 23103859 Coil (Ferrite Bead), TEM20 L826 23280016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L866 23289229 Coil, Peaking, TRF42R2AF △L901 23200691 Coil, Degaussing, TSB-2229 L990 23289100 Coil, Peaking, TRF4100AF LA02 23289109 Coil, Peaking, TRF41R0AF LA03 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △T401 23224983 Transformer, Horiz, Drive, TLN1039 △T461 23236501 Transformer, Flyback, TFB4124AE △T801 23211929 Line Filter, TRF3130 | | | | |
| L826 23280016 Coil, Peaking, TRF4100AZ L829 23103859 Coil (Ferrite Bead), TEM20 L866 23289229 Coil, Peaking, TRF42R2AF △L901 23200691 Coil, Degaussing, TSB-2229 L990 23289100 Coil, Peaking, TRF4100AF LA02 23289109 Coil, Peaking, TRF41R0AF LA03 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △T401 23224983 Transformer, Horiz, Drive, TLN1039 △T461 23236501 Transformer, Flyback, TFB4124AE △T801 23211929 Line Filter, TRF3130 | | | | |
| L829 23103859 Coil (Ferrite Bead), TEM20 L866 23289229 Coil, Peaking, TRF42R2AF △L901 23200691 Coil, Degaussing, TSB-2229 L990 23289100 Coil, Peaking, TRF4100AF LA02 23289109 Coil, Peaking, TRF41R0AF LA03 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △T401 23224983 Transformer, Horiz, Drive, TLN1039 △T461 23236501 Transformer, Flyback, TFB4124AE △T801 23211929 Line Filter, TRF3130 | | | | L823 |
| L866 23289229 Coil, Peaking, TRF42R2AF | | | | L826 |
| ▲ L901 23200691 Coil, Degaussing, TSB-2229 L990 23289100 Coil, Peaking, TRF4100AF LA02 23289109 Coil, Peaking, TRF41R0AF LA03 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) (1480TB/TBW) LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) (1480RB/RBW) △ T401 23224983 Transformer, Horiz, Drive, TLN1039 Transformer, Flyback, TFB4124AE (1480TB/TB) △ T801 23211929 Line Filter, TRF3130 | | | | L829 |
| L990 23289100 Coil, Peaking, TRF4100AF LA02 23289109 Coil, Peaking, TRF41R0AF LA03 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △ T401 23224983 Transformer, Horiz. Drive, TLN1039 △ T461 23236501 Transformer, Flyback, TFB4124AE △ T801 23211929 Line Filter, TRF3130 | | | 23289229 | L866 |
| LA02 23289109 Coil, Peaking, TRF41R0AF LA03 23103859 Coil (Ferrite Bead), TEM20 LA04 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △ T401 23224983 Transformer, Horiz. Drive, TLN1039 △ T461 23236501 Transformer, Flyback, TFB4124AE △ T801 23211929 Line Filter, TRF3130 | | | 23200691 | ∆ L901 |
| LA03 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △ T401 23224983 Transformer, Horiz. Drive, TLN1039 △ T461 23236501 Transformer, Flyback, TFB4124AE △ T801 23211929 Line Filter, TRF3130 | \$100AF | Coil, Peaking, TRF4 | 23289100 | L990 |
| LA04 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △ T401 23224983 Transformer, Horiz. Drive, TLN1039 △ T461 23236501 Transformer, Flyback, TFB4124AE △ T801 23211929 Line Filter, TRF3130 | | | 23289109 | LA02 |
| (1480TB/TBW) LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △ T401 23224983 Transformer, Horiz. Drive, TLN1039 △ T461 23236501 Transformer, Flyback, TFB4124AE △ T801 23211929 Line Filter, TRF3130 | TEM2011 | Coil (Ferrite Bead), | 23103859 | LA03 |
| LA05 23103859 Coil (Ferrite Bead), TEM20 (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △ T401 23224983 Transformer, Horiz. Drive, TLN1039 △ T461 23236501 Transformer, Flyback, TFB4124AE △ T801 23211929 Line Filter, TRF3130 | TEM2011 | | 23103859 | LA04 |
| (1480TB/TBW) LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) △ T401 23224983 Transformer, Horiz. Drive, TLN1039 △ T461 23236501 Transformer, Flyback, TFB4124AE △ T801 23211929 Line Filter, TRF3130 | | | | |
| LA06 23238708 Coil, Peaking, TRF4330AJ (1480RB/RBW) ↑ T401 23224983 Transformer, Horiz. Drive, TLN1039 ↑ T461 23236501 Transformer, Flyback, TFB4124AE ↑ T801 23211929 Line Filter, TRF3130 | TEM2011 | Coil (Ferrite Bead), | 23103859 | LA05 |
| (1480RB/RBW) A T401 23224983 Transformer, Horiz. Drive, TLN1039 A T461 23236501 Transformer, Flyback, TFB4124AE A T801 23211929 Line Filter, TRF3130 | | | | |
| ▲ T401 23224983 Transformer, Horiz. Drive, TLN1039 ▲ T461 23236501 Transformer, Flyback, TFB4124AE ▲ T801 23211929 Line Filter, TRF3130 | 4330AJ | | 23238708 | LA06 |
| TLN1039 △T461 23236501 Transformer, Flyback, | | | | |
| ↑ T461 23236501 Transformer, Flyback, | . Drive, | · · · · · · · · · · · · · · · · · · · | 23224983 | △ T401 |
| TFB4124AE △T801 23211929 Line Filter, TRF3130 | | | | l . |
| △T801 23211929 Line Filter, TRF3130 | ck, | | 23236501 | <u></u> |
| | .0 | | 00044000 | A TOO4 |
| 1/\ 1803 | | | | |
| | erter, | | 23217274 | _∆T803 |
| TPW3322AR | | 17VV33ZZAK | | |
| SEMICONDUCTORS | | | PAULTORS | SEMICOND |
| | ATN4 | Transistar ACC200 | | |
| Q105 A6708871 Transistor, 2SC388ATM | | | | |
| Q110 A6317440 Transistor, 2SC1815-Y | | | | 1 |
| Q111 A6317440 Transistor, 2SC1815-Y | | | | I |
| Q112 A6534053 Transistor, 2SA1015-Y(TE | | | | |
| Q201 A6317440 Transistor, 2SC1815-Y | | | | 1 |
| Q210 23114530 Transistor, 2SA933S-Q | | | | |
| Q212 A6317440 Transistor, 2SC1815-Y | 5-Y | | A6317440 | Q212 |
| (1480TB/TBW) | | | | |
| Q301 B0377890 IC, TA8403K | | IC, ТА8403К | B0377890 | Q301 |

| | Location No. | Part No. | Description |
|-----|-----------------|----------------------|---|
| | Q301B | 23037310 | Screw, BTBW3X10SZN |
| | Q301D | A6317440 | Transistor, 2SC1815-Y |
| ۱ | | | (1480TB/TBW) |
| | Q402 | A6330069 | Transistor, 2SC2482 FA-1 |
| ı | Q404 | A6871242 | Transistor, 2SD1554 |
| l | Q404B | 23037310 | Screw, BTBW3X10 SZN |
| 1 | Q470 | A6547250 23314141 | Transistor, 2SA1320 Transistor, 2SC3852 |
| l | Q480 Q480B | 23035308 | Screw, BTB3X8SZN |
| ı | Q501 | B0101539 | IC, TB1231N(FA-1 |
| ļ | Q601 | 23119668 | IC, TDA2611A |
| ١ | Q602 | 23318916 | IC, MC14053BCP |
| | Q603 | A6342206 | Transistor, 2SC2878-A(TE |
| | Q604 | A6534053 | Transistor, 2SA1015-Y(TE |
| 1 | Q606 | A6010040 | Transistor, RN2004 |
| ١ | Q608 | A6317440 | Transistor, 2SC1815-Y |
| | Q609 | A6342206 23314146 | Transistor, 2SC2878-A(TE IC(STR), STR58041 |
| ١ | Q801 Q802 | A6534145 | Transistor, 2SA1020-Y(C) |
| | Q803 | A6333346 | Transistor, 2SC2655-Y(C) |
| ١ | Q804 | A6317440 | Transistor, 2SC1815-Y |
| | Q805 | A6317440 | Transistor, 2SC1815-Y |
| | Q806 | A6317440 | Transistor, 2SC1815-Y |
| 1 | ∆ Q 826 | A8643108 | Photo Coupler, TLP621(GR-LF |
| | Q828 | A6317440 | Transistor, 2SC1815-Y |
| ١ | Q831 | A6317440 | Transistor, 2SC1815-Y |
| 1 | Q835 | 23318299 A6534053 | IC, L78MR05 Transistor, 2SA1015-Y(TE |
| 1 | Q836 Q861 | 23314141 | Transistor, 2SC3852 |
| - | Q861B | 70391356 | Screw, BITTB3X10 SZN |
| | Q870 | A6333346 | Transistor, 2SC2655-Y(C) |
| | Q871 | A6317440 | |
| ı | Q905 | A6330069 | Transistor, 2SC2482 FA-1 |
| 1 | Q907 | A6330069 | |
| ١ | Q909 | A6330069 | Transistor, 2SC2482 FA-1 |
| ١ | Q910 | A6330069 | |
| 1 | Q911 QΑ01 | 23114530 23906524 | Transistor, 2SA933S-Q IC, SAA5290ZP/084/M5 |
| ١ | QAUI | 23900324 | (1480TB/TBW) |
| - | QA02 | 23904706 | IC, NM24C02EN |
| | QA03 | A6317440 | |
| | QA04 | A6317440 | Transistor, 2SC1815-Y |
| | 0A08 | A6317440 | Transistor, 2SC1815-Y |
| ļ | QA09 | A6317440 | |
| | QA10 | A6317440 | |
| | QA25 | A6317440 | |
| | QB01 QB02 | A6317440 A6534053 | |
| | QR01 | 70129053 | IC, BA7603 |
| - | QR02 | A6002040 | |
| | QR03 | A6734590 | |
| | QR05 | A6317440 | |
| - | QR07 | A6002040 | |
| - [| QV01 | A6317440 | Transistor, 2SC1815-Y |
| | D108 | 23115878 | Diode, Zener, μPC574J, (L) |
| I | D109 | 23115599 | Diode, 1N4148 Diode, 1N4148 |
| | D111 | 23115599 A7150258 | |
| | D201 D202 | 23316667 | Diode, 753176 Diode, Zener, MTZJ4.7C |
| | D202 D206 | 23115599 | Diode, 1N4148 |
| | D208 | 23115599 | Diode, 1N4148 |
| | D301 | 23118479 | Diode, BYD33J |
| | D302 | 23118479 | Diode, BYD33J |
| | D312 | 23316794 | Diode, SC570A |
| | | | |

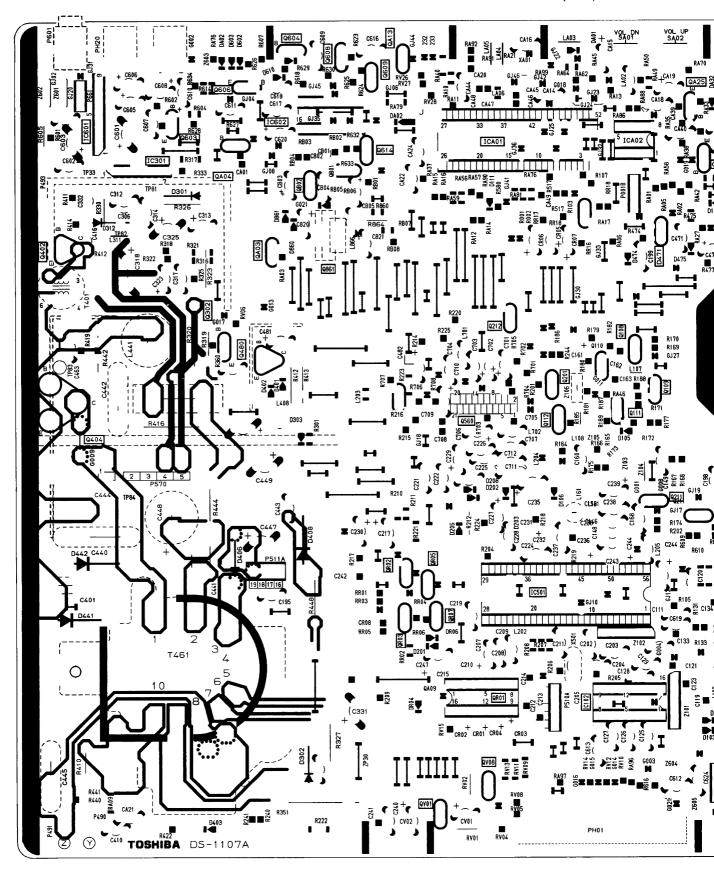
| Location | Part No | Description |
|--------------|----------------------|------------------------------|
| No. | | |
| D401 | 23316668 | Diode, Zener, MTZJ5.1A |
| D402 | 23316666 | |
| D403 | 23316688 23118479 | Diode, Zener, MTZJ9.1C |
| D406 | | |
| D408 | | Diode, RU4Z SCR, SF0R3G42 |
| D471 D474 | A7801205 | Diode, Zener, MTZJ16B |
| D474 D475 | 23316719 | |
| D601 | 23115599 | Diode, 1N4148 |
| D602 | 23115599 | Diode, 1N4148 |
| D603 | 23115599 | Diode, 1N4148 |
| D610 | 23115599 | |
| D801 | 23118124 | |
| D810 | 23316725 | |
| D811 | | Diode, 1N4148 |
| D812 | 23118479 | |
| D813 | 23115599 23316672 | |
| D814 D815 | 23316672 | Diode, 1N4148 |
| D816 | 23316648 | |
| D817 | 23118479 | Diode, BYD33J |
| D818 | | |
| D819 | 23118479 23316675 | Diode, Zener, MTZJ6.2B |
| D830 | 23118479 | Diode, BYD33J |
| D832 | 23118479 | |
| D847 | 23115599 | |
| D848 | 23316666 | |
| D860 | 23316674 23316672 | |
| D861 D870 | 23316672 23115599 | Diode, 1N4148 |
| D878 | 23316689 | Diode, Zener, MTZJ10A |
| D991 | 23316554 | Diode, 1SS146 |
| D992 | 23316554 | Diode, 1SS146 |
| D993 | 23316554 | Diode, 1SS146 |
| D994 | 23115599 | |
| DA01 | 23316675 | Diode, Zener, MTZJ6.2B |
| DA02 | 23115599 | |
| DA03 | 23115599 | |
| DA32 | 23115599 23358504 | |
| DE50 DR04 | 23336504 | |
| DR04 DR06 | | Diode, 1N4148 |
| D1100 | 20110000 | Brode, William |
| MISCELLA | NEOUS | |
| B202 | 23451654 | Holder, FBT |
| △F801 | 23144507 | |
| F801A | 23165433 | |
| ⚠ F803 | 23144876 | _ |
| F803A | 23165433 | Holder, Fuse CF, 680 ohm |
| G002 | 24366681 24366681 | • |
| G003 G012 | 23115599 | • |
| G012 | 23115599 | |
| G017 | 24366473 | CF, 47k ohm (1480TB/TBW) |
| G019 | 24366102 | CF, 1k ohm |
| G021 | 23289109 | |
| K901 | 23904750 | |
| P601 | 23365292 | |
| ⚠ P801 | 23372012 | |
| P803 | 23164725 | |
| PH01 | 23365598 | |
| PH20 | 23364692 23145434 | |
| SA01 | 23145430 | |
| 1 | | • • |

| Location | Part No. | Description |
|--|--|--|
| No. | Part No. | Description |
| SA02 | 23145430 | Switch, Push, 1C1P |
| SA02 | 23145430 | Switch, Push, 1C1P |
| SA04 | 23145430 | Switch, Push, 1C1P |
| ∆ V901A | 23902022 | |
| | | · · · · · · · · · · · · · · · · · · · |
| W661 | 23351079 | Speaker, SPK-1351, |
| | | 77x77mm, 16 ohm |
| X501 | 23153979 | Crystal, 4.43MHz |
| XA01 | 23153930 | Crystal, 12.0MHz |
| Z102 | 23303135 | Filter, 39.5M, OFWJ1951M |
| Z104 | 23107948 | Ceramic Filter, 6.0MHz, |
| | | SFE6.0MBF |
| Z105 | 23107926 | Ceramic Video Trap, 6.0MHz, |
| 7004 | 00407744 | TCF1012 |
| Z601 | 23107744 | Filter, TEM1012 |
| Z602 | 23107744 | Filter, TEM1012 |
| ZP30 | 23144599 | Protector, 125V, 0.63A |
| ZP80 | 23144539 | Protector, 125V, 2A |
| ZT01 | 23153736 | Ceramic Resonator, TCR1025 |
| PC BOARD | ASSEMB | LIFS |
| * U902A | 23781699 | |
| 4 0302A | 23701033 | (1480TB/1480TBW) |
| * U902A | 23781699 | Signal Board, PB7978G-1 |
| ホ U3UZA | 23701033 | (1480RB/1480RBW) |
| H000B | 00701701 | |
| * U902B | 23781701 | CRT Drive Board, PB7978A-2 |
| | 00704704 | (1480TB/1480TBW) |
| ★ U902B | 23781701 | , |
| | | (1480RB/1480RBW) |
| PICTURE 1 | TURE | |
| △ V901 | 23312582 | Picture Tube, A34EAC01X65 |
| ∆ V301 | 23312302 | Ticture Tube, AS4LAC01X05 |
| TUNER | | |
| OHEIL | 00004005 | Tuner, UF813BX1 |
| H001 | | Tuller, OF613BX1 |
| H001 | 23321205 | |
| H001 ACCESSOI | | |
| ACCESSO | | Remote Hand Unit. CT-9784 |
| | RIES | Remote Hand Unit, CT-9784 (1480TB/TBW) |
| ACCESSOI K902 | RIES 23306084 | (1480TB/TBW) |
| ACCESSOI K902 AT03 | RIES 23306084 23305743 | (1480TB/TBW) Battery Cover |
| ACCESSOI K902 | RIES 23306084 | (1480TB/TBW) Battery Cover Owner's Manual, English, |
| ACCESSOI K902 AT03 Y101 | 23306084 23305743 23563313 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW |
| ACCESSOI K902 AT03 | RIES 23306084 23305743 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, |
| ACCESSOI K902 AT03 Y101 Y101 | RIES 23306084 23305743 23563313 23563314 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, 1480RB/1480RBW |
| ACCESSOI K902 AT03 Y101 | 23306084 23305743 23563313 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, |
| ACCESSOI K902 AT03 Y101 Y101 | RIES 23306084 23305743 23563313 23563314 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, 1480RB/1480RBW |
| ACCESSOI K902 AT03 Y101 Y101 | RIES 23306084 23305743 23563313 23563314 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, 1480RB/1480RBW |
| ACCESSOI K902 AT03 Y101 Y101 | RIES 23306084 23305743 23563313 23563314 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, 1480RB/1480RBW |
| ACCESSOI K902 AT03 Y101 Y101 | RIES 23306084 23305743 23563313 23563314 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, 1480RB/1480RBW |
| ACCESSOI K902 AT03 Y101 Y101 | RIES 23306084 23305743 23563313 23563314 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, 1480RB/1480RBW |
| ACCESSOI K902 AT03 Y101 Y101 | RIES 23306084 23305743 23563313 23563314 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, 1480RB/1480RBW |
| ACCESSOI K902 AT03 Y101 Y101 | RIES 23306084 23305743 23563313 23563314 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, 1480RB/1480RBW |
| ACCESSOI K902 AT03 Y101 Y101 | RIES 23306084 23305743 23563313 23563314 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, 1480RB/1480RBW |
| ACCESSOI K902 AT03 Y101 Y101 | RIES 23306084 23305743 23563313 23563314 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, 1480RB/1480RBW |
| ACCESSOI K902 AT03 Y101 Y101 | RIES 23306084 23305743 23563313 23563314 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, 1480RB/1480RBW |
| ACCESSOI K902 AT03 Y101 Y101 | RIES 23306084 23305743 23563313 23563314 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, 1480RB/1480RBW |
| ACCESSOI K902 AT03 Y101 Y101 | RIES 23306084 23305743 23563313 23563314 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, 1480RB/1480RBW |
| ACCESSOI K902 AT03 Y101 Y101 | RIES 23306084 23305743 23563313 23563314 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, 1480RB/1480RBW |
| ACCESSOI K902 AT03 Y101 Y101 | RIES 23306084 23305743 23563313 23563314 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, 1480RB/1480RBW |
| ACCESSOI K902 AT03 Y101 Y101 | RIES 23306084 23305743 23563313 23563314 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, 1480RB/1480RBW |
| ACCESSOI K902 AT03 Y101 Y101 | RIES 23306084 23305743 23563313 23563314 | (1480TB/TBW) Battery Cover Owner's Manual, English, 1480TB/1480TBW Owner's Manual, English, 1480RB/1480RBW |

| Location No. | Part No. | Description |
|-----------------|----------|----------------------------------|
| CABINET F | PARTS | |
| A201 | 23410259 | Front Cover (1480TB) |
| A201 | 23410765 | Front Cover (1480TBW) |
| A201 | 23410303 | Front Cover (1480RB) |
| A201 | 23410763 | Front Cover (1480RBW) |
| A218 | 23421601 | Rail, L |
| A231 | 23443832 | Button, Power (1480TB) |
| △A401 | 23425821 | Back Cover (1480TB/RB) |
| △A401 | 23426722 | Back Cover (1480TBW/RBW) |
| A411 | 23560988 | Label, Model No. (1480TB/TBW) |
| A411 | 23560989 | Label, Model No. (1480RB/RBW) |
| A501 | 23030187 | Screw, CRT5X30 |
| A701 | 23525589 | Case |
| A702 | 23935266 | Packing, Bottom |
| A703 | 23935267 | Packing, Top |

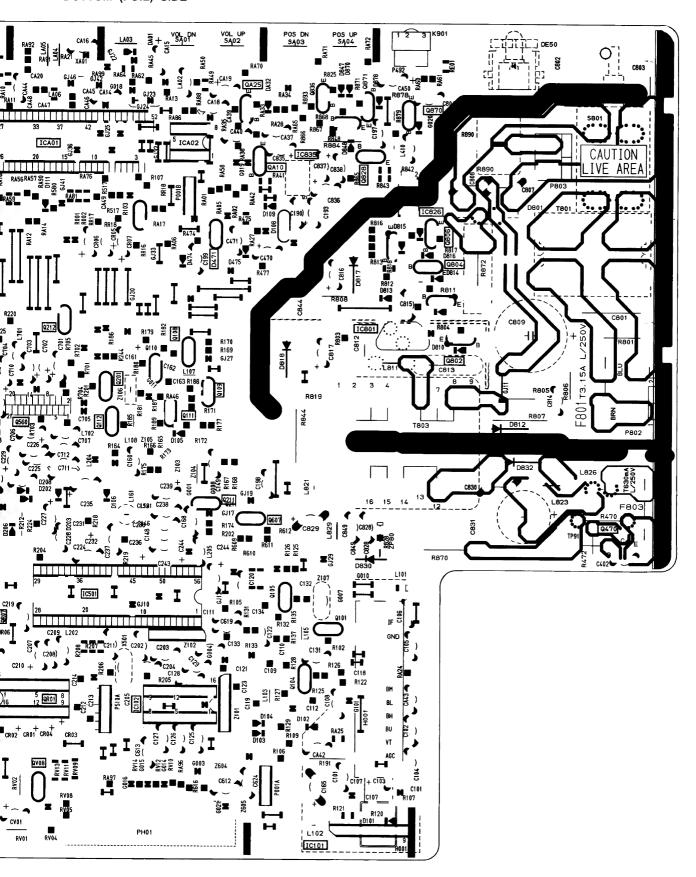
MAIN BOARD PB7978A-1

BOTTOM (FOIL) SIDE



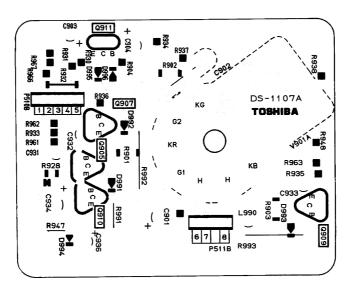
MAIN BOARD PB7978A-1

BOTTOM (FOIL) SIDE



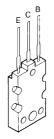
CRT/D BOARD PB7978A-2

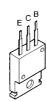
BOTTOM (FOIL) SIDE



TERMINAL VIEW OF TRANSISTORS

- 2SD2253 1 (old) 2SC5243
- 2 2SC3852 2SD1763A 2SC1569 2SC4544 2SA1788 2SA1306 2SA1186A
- 2SC752GTM 3 2SC2482 2SC2655 2SC4721P
- 4 2SC752 2SA562TM 2SA1015 2SC1815 2SC2878 2SC1740S 2SC2120 2SA9335
- (5) 2SA1788



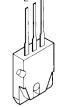




ON4409





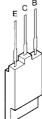


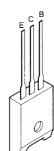
RN2203 **6**) RN2201 RN2004 RN1203 RN1204 RN2204 RN1205 RN1202 RN1201



7 2SD1554 2SD2253 2SD1556 2SC5143







| | SPECIFICATIONS (Representative : 1480TB |) |
|---------------------------|--|-------------------------|
| Input Power Rating: | 53 watts(Approx), AC 220~240 volts, 50 Hz | |
| Aerial Input Inpedanse: | 75 ohm unbalanced type for UHF | |
| Receving Channels: | PAL-I Standard: | |
| | UHF | channels 21 to 69 |
| Intermediate Frequencies: | Picture I-F carrier frequency | 39.5 MHz |
| , | Sound I-F carrier frequency | 33.5 MHz |
| | Colour sub-carrier frequency | 35.07 MHz |
| Picture Tube | 14 inches, 340 mm (measured on diagonal of | viewable picture area), |
| | 90° deflection | |
| Sound Output: | 1.5 watts (at 10% harmonic distortion) x 1 | |
| Speakers: | 77mm round 1 pc | |
| Dimensions: | Height | 366 mm |
| | Width | 400 mm |
| | Depth | 378 mm |
| Mass: | 9.2 kg | |

Specifications are subject to change without notice.

TOSHIBA CORPORATION

1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-01, JAPAN

4 j H 4 Ę ATT DIVE AT SECULAR VETTOR OF THE PARTY OF T VALLE OF TESTED CAPACITOR AND INDUCTOR THE INDUCTOR IN WALLE OF TESTED CAPACITOR AND INDUCTOR THE INDUCTOR IN THE INDUCTOR INTUITION TO THE INTUITION TO THE INDUCTOR INTUITION TO THE INDUCTOR INTUITION TO THE INTUITION TO THE INDUCTOR INTUITION TO THE INDUCTOR INTUITION TO THE INTUITION THE I Ē T 13 to 13 14.0-41 **4**6.1 TO THE STATE OF TH H H 18 182 ij Ę strown to chassis ground, line voltage 220 finding may vert x20%.
Send oscilloscope and a low capacity probe.
Ad colour bar signal.
DLOMR controls are in mid position and ximum position. Set other controls to the 10 mg - S 10 The state of the s E, 13. 20 21 13 (1/2) CAUTION: The intensional hazard syntols '\hat{\alpha}'s in the schemide diagram and the part is et designate com-ponents which have special demanteriates in prefitting to safety and both to explaced only with hystoliating in those as it is cogisal dizact or speciales in the pasts list. The nounting position of insparements is to be determined with originals. Either reposition any of these convenients and earth the PROSLOCT SAFEY KETTICE on page 2. Do not degree that safety of the receiver innough reports are notice. MODEL: 1480TB / 1480TBW 1480RB / 1480RBW 11.1 p 10 t ∰ 10 mm J. I ž SCHEMATIC DIAGRAM

030-9803

SCHEMATIC DIAGRAM

MODEL: 1480TB / 1480TBW

1480RB / 1480RBW

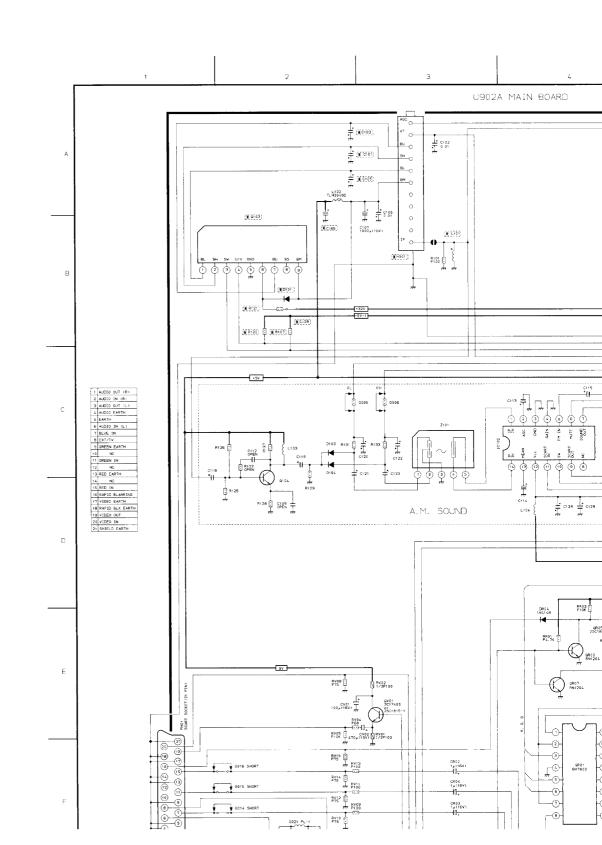
030 - 9803

CAUTION: The international hazard symbols " \bigwedge " in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

OBSERVATIO

(1/2)

- 1. Voltages re volts, colo
- 2. All wavefo
- 3. Waveform
- 4. Make sure BRIGHTNE picture.



(1/2)

al to

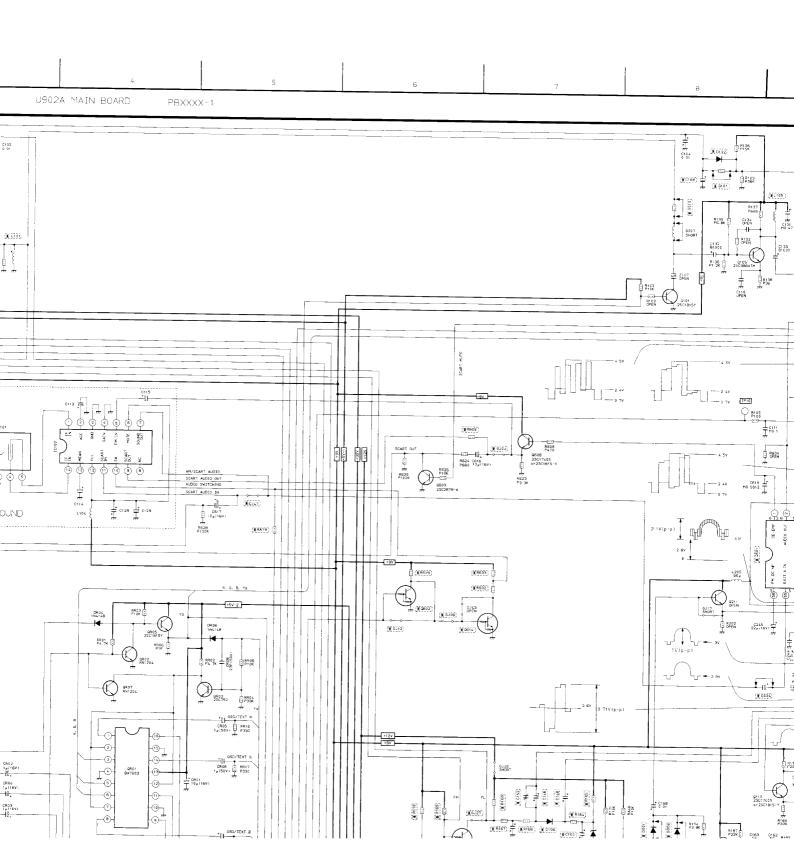
oage

OBSERVATION OF VOLTAGES AND WAVEFORMS

- 1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary $\pm 20\%$.
- 2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
- 3. Waveforms are taken using a standard colour bar signal.
- Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

NOTES:

- D.C. resistance value of gram. These are measure
- 2. The circuits are subject
- 3. 👄 : Solder links.

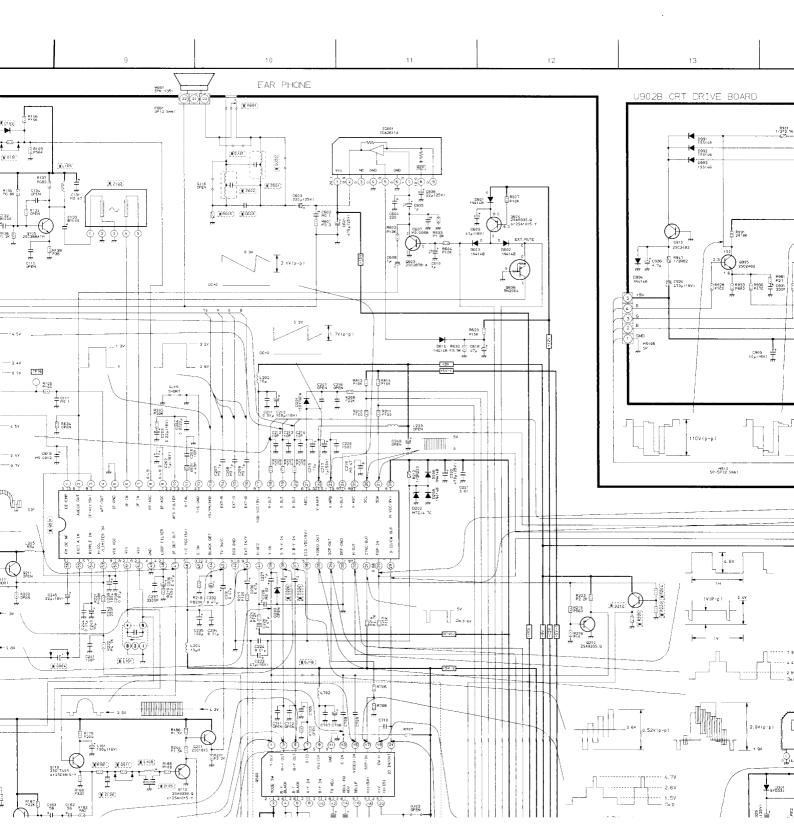


stance value of a principal transformer is shown in this schematic dianese are measured for separated from the circuit, sits are subject to change without notice.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

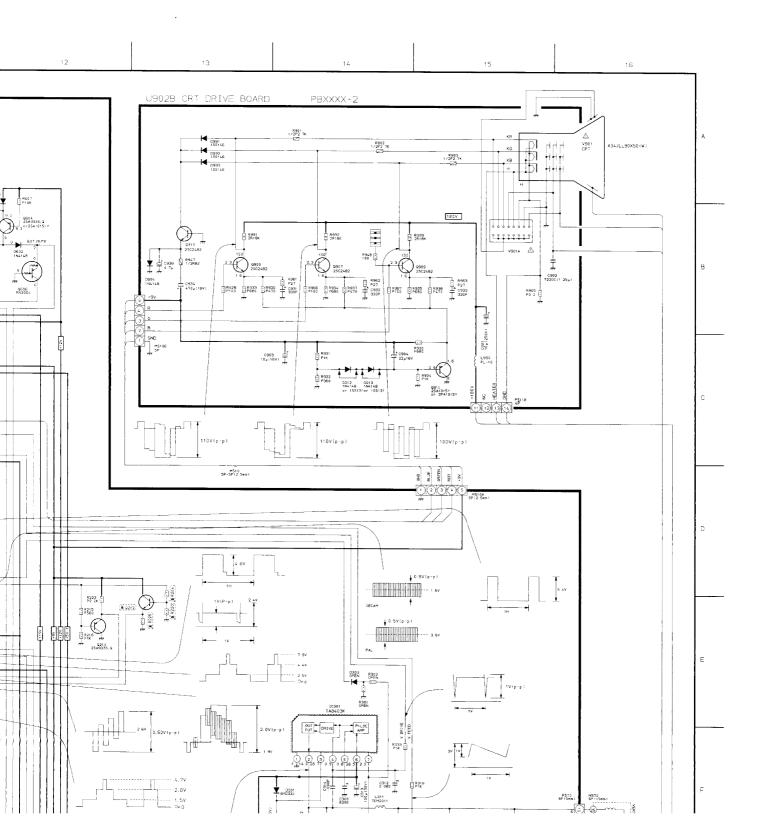
- 1. Resistance is shown in ohm, k=1,000, M=1,000,000
- 2. Unless other wise noted in schematic, all capacitor values d in μF and the values more than 1 in pF.
- Unless otherwise noted in schematic, all inductor value sed in μH, and the values less than 1 in H.

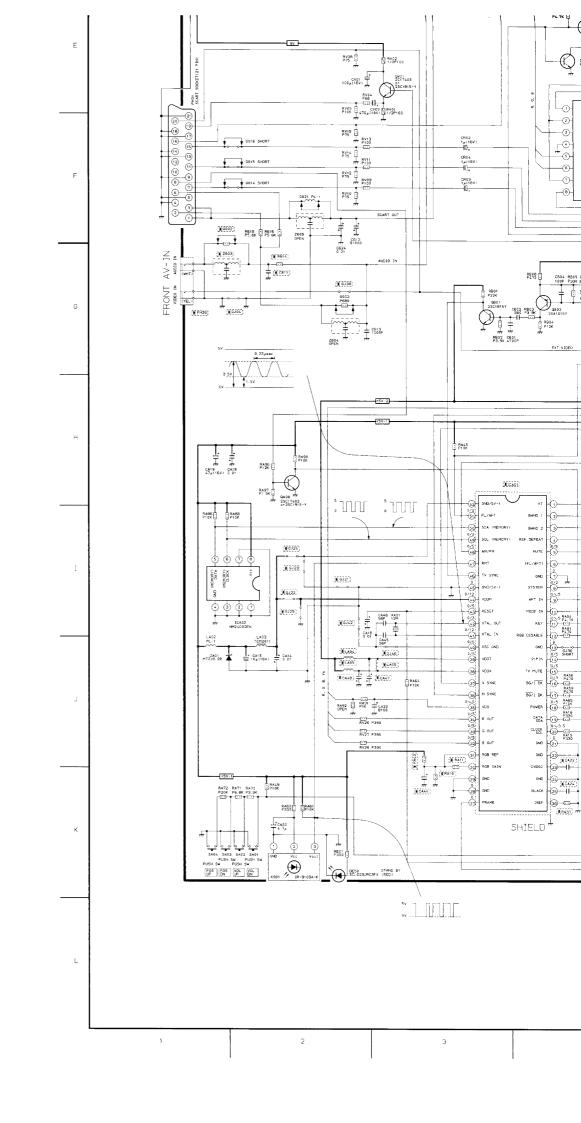


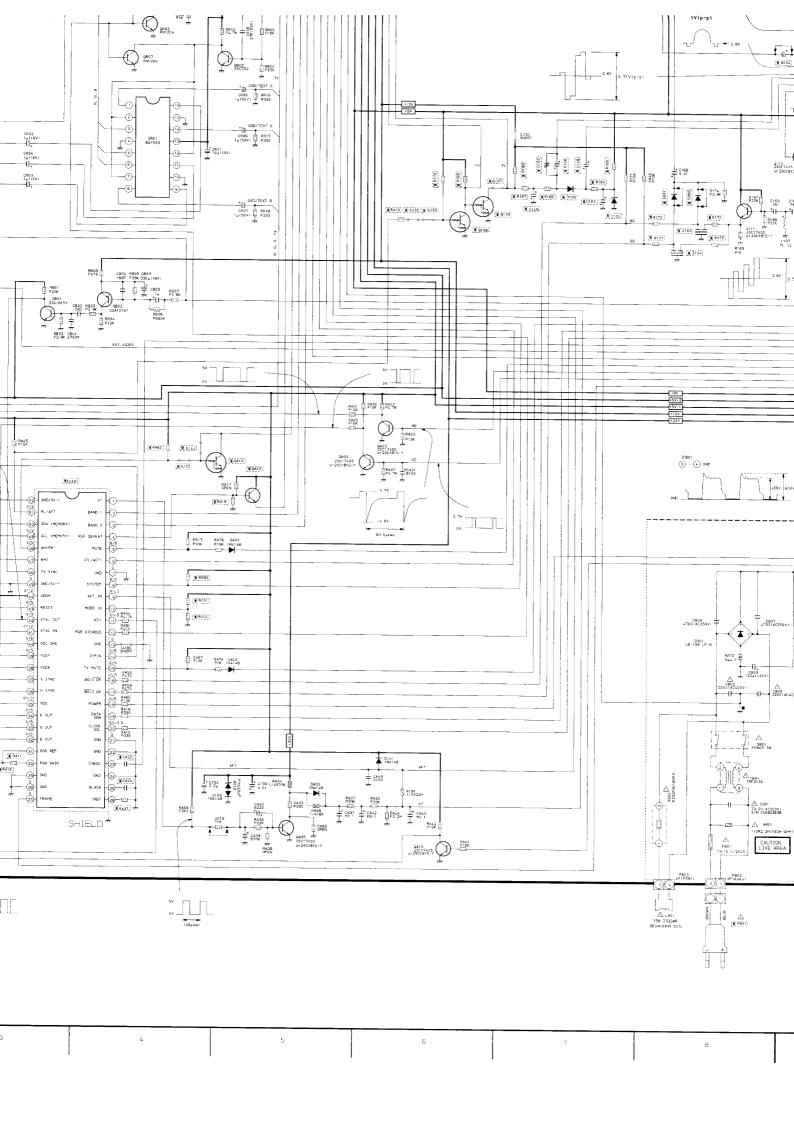
EXPRESSION

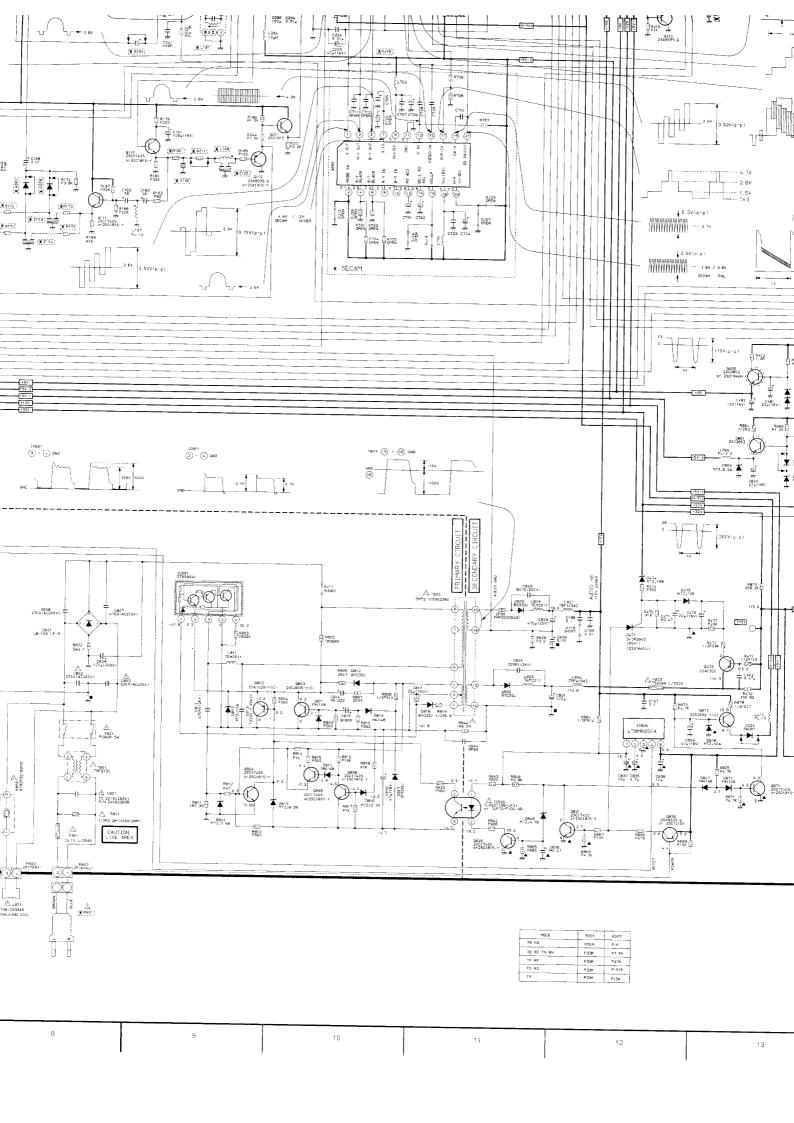
VALUE OF RESISTOR, CAPACITOR and INDUCTOR

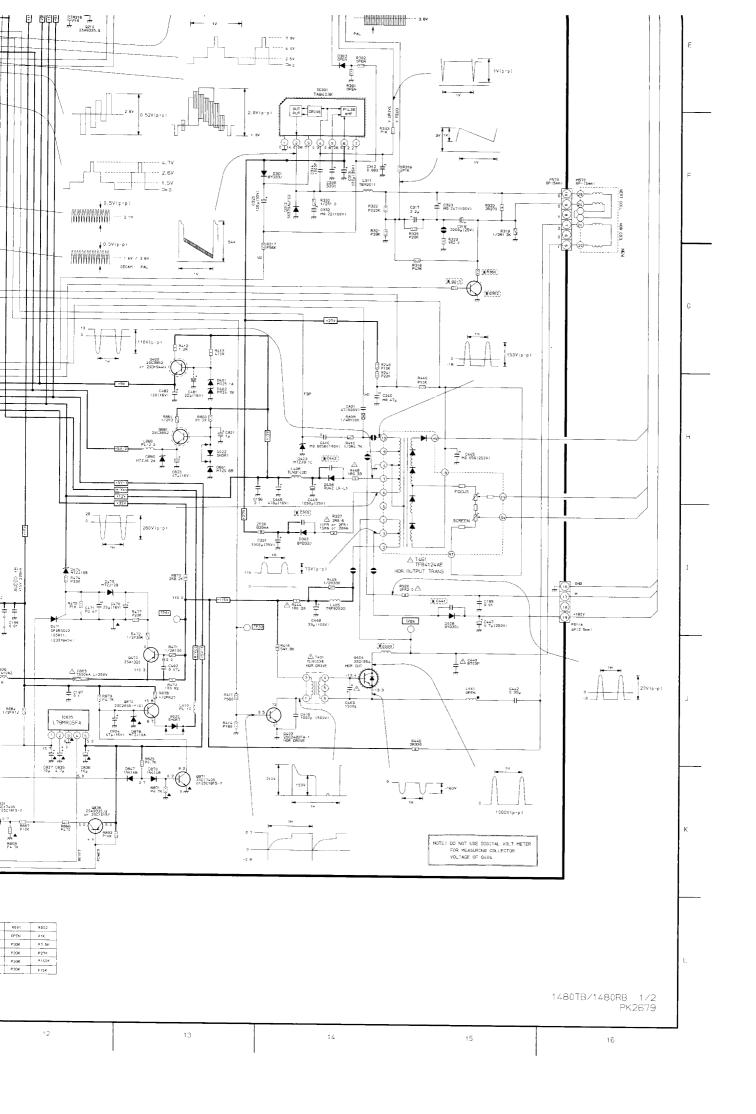
- 1. Resistance is shown in ohm, k=1,000, M=1,000,000
- 2. Unless other wise noted in schematic, all capacitor values less than 1 are expres-
- sed in μ F and the values more than 1 in pF. 3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH , and the values less than 1 in H.











1480TH 1480FB 2/2 1480FB 2/2 O 104.01 104.015 204.01 205.01 206.0 3N01 NOTES:
1. D.C. restince value of a principal transformer is shown in this schematic diagram. These are measured for superinted from the circuit.
2. The circuits are subfacts to Orlange without notice.
3. \$\Pi \in \text{coded in the limits}\$
\$\text{\$\teta}\$\$\$}}}\$}}}}}.}}}}}}}}}}}} \end{and in the constant \$\text{\$\te 2014 COZ (No. A. S. (1915) S. (OBSERVATION OF VOCTAGES AND WAVEGORES

1. Vitages restrict stown to classify ground, for vottage 200
vots. colour bat spoal. Vottages residing may vort 240%.
Vots. colour bat spoal. Vottages residing may vort 240%.

2. A forwedown as table simple as vottages residing may ware 120%.

2. A forwedown as table simple size and to specify probability as the Patt CONTINGS and COLOUR control as in mit position and BIGGINESS control is almost an maximum position. Set other controls for best polars. 4.195 1105 0.105 6600 9005 9005 9005 1005 1005 2275 2275 2275 2275 2275 2275 936 108291 108291 10831 10831 10932 10 (2/2) CAUTON: The intensional housed symbols "A", in the schemic degram and the parts list designate components which have speed characteristics present that safety designates over the parts list. The mouting posters of enjacements is the factorist with one of the cognised character speedless in the parts list. The mouting posters of enjacements is the factorist with one parts and the secretarist posters of enjacements is the factorist of the conservation of the conservation in end entails by the PRODOT SMETH NOTICE on page 1.5 Loss degrades assisting of the receiver intoory improvements are the processor. MODEL: 1480TB / 1480TBW 1480RB / 1480RBW 250 V 591.0 97.0 97.0 97.0 62.0 92.0 92.0 92.0 92.0 22.0 82.0 62 12 62 12 62 12 62 12 62 12 62 12 63 12 64 9110 8010 9010 5010 6010 1010 8770 2770 7770 7270 901 901 601 101 101 129 290 729 729 8010 9010 0010 1010 8770 477 7770 7670 2670 SCHEMATIC DIAGRAM

030-9803

SCHEMATIC DIAGRAM

MODEL: 1480TB / 1480TBW

1480RB / 1480RBW

030 - 9803

CAUTION: The international hazard symbols "\(\infty \)" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

(2/2) OBSER

1. Volta volts

2. All w

3. Wav 4. Mak BRIC picti

| _ | | | | | 1 | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
|-----|-----------|--------|--------------|----------|----------|-----------|--------------|------|------------|---------|-----------------------|-----------|------------|----------|-------|-------|------|---------|-------|----------|-------|---------|------|-------|-------|------|---------|------|------------|-------------|---------------|------|------|------|-----------|---------|-------------|----------------|-------------|-------------|--------------|---------|---------|-------------|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| А | TES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | COORDINAT | - | 7 X | र्ते | ála | ile | 200 | ¥ 7 | ZA | ZA | 8A A | 74C | 7D | 75 70 | 7 | SC | 30 | 2C | 30 | 30 | 40 | 7 | 75 | 1 | - t | _ L | 4 | 7F | 2A | 7tC | 7+C | 14] | 151 | H71 | 101 | 11F | 11F | 11F | 10E | 10E | 10E | 11E | 11E | 11F |
| В | | 000 | CA24 | / / / / | CA47 | α / / / | 0100 | 0.0 | C103 | C105 | C108 | C113 | C114 | C115 | C118 | C119 | C120 | C121 | C122 | C123 | 0.128 | 0000 | C1/6 | 0 0 | 0 1 | C149 | C152 | C160 | C165 | C225 | C226 | C315 | C441 | C773 | C701 | C702 | C703 | C704 | C705 | C706 | C707 | C708 | C709 | C710 |
| | | L | F E | JQ. | 2 2 | | | L I | ¥ | ж Н | æ | H. | A. | 쓘 | RF. | 쌈 | | 4 | T. | HH. | B.F. | | 140 | | L 1 | ż | H. | H. | 씸 | 분 | 분 | 쑈 | HH. | R | # | RF | - RF | 꿈 | _ | 1 | , RF | 2 | 7 | NF NF |
| С | 17.80RE | 14001 | | i lingin | AGP AGP | 000 | 700 o | 0.01 | 0.01 µ | 0.01 | 47 _µ (16V) | 10 µ (16V | 22 µ (16V) | 10 (16V) | 1000P | 1000P | 0.01 | 1000P | 0.01 | 1000P | 0.01 | 77(16V) | 0 | | 0.0 | 0.01 | 2R7-100 | 0.01 | 2200µ(16V | 0.1 (50V) | $0.1\mu(50V)$ | 220F | 220P | 220P | 10µ(50V) | 14(50V) | 0.01 µ (50V | 100 µ (16V) | 0.033µ (50V | 100 µ (16V) | 0.01 µ (50V | 100P | 14(50V) | 0.01 µ (50V |
| | | 0 | CAZZ | 1740 | CA44 | 1 (| CA48 | CLOI | C103 | C105 | C108 | C113 | C114 | 0115 | C118 | 0119 | C120 | 0121 | 0122 | 2100 | 0120 | 0120 | 0170 | 0140 | C 4¤ | C149 | C152 | C160 | C165 | C225 | C226 | C315 | C441 | 6773 | C701 | C702 | C703 | C704 | C705 | C706 | C707 | C708 | C709 | C710 |
| | | l | ± <u>1</u> | - - | <u> </u> | - - | _ F | _ | Ŧ | H | 1 | 土 | 1 | H | ļL. | ļĿ. | 土 | 1 | 1 | <u> </u> | - 12 | - | - - | L | _ | 4 | Ľ | 1 | 11 | 브 | ļ± | # | F | ± | F | 土 | 1 | 1 | | | 1 | 1 | 브 | 14 |
| D į | a van Til | 14801 | 0.12(50V) | 0.000 | 4/µ(16V) | 0.0101000 | 0.01 4 (50V) | 0.01 | 0.01 | 0.01 yr | 47 (16V) | 10,4 (16V | 22µ (16V) | 10 (16V) | 1000P | 1000P | 0.01 | 1000 | 200 | 0.00 | 000 | 0.01 | 1,00 | ี้ ส์ | 0.01μ | 0.01 | 2R7-100 | 0.01 | 2200µ(16V) | 0.1 µ (50V) | 0.1 µ (50V) | 220P | 220P | 220P | 104 (50V) | 14(50V) | 0,01µ(50V) | 100,(16V) | 0.033μ(50V | 100 µ (16V) | 0.01 µ (50V) | 100P | 1 (50V) | 0,01µ(50V) |
| | | | CA22 | CAZ4 | CA44 | CA4 / | CA48 | C101 | C103 | C105 | C108 | C113 | C114 | C115 | C118 | 0119 | 0120 | 0.101 | -1210 | 1000 | 0400 | 272 | 0170 | C146 | C148 | C149 | C152 | C160 | C165 | C225 | C226 | C315 | C441 | 0443 | C701 | C702 | C703 | C704 | C705 | C706 | C707 | C708 | C709 | C710 |
| E | | | 2 2 | 2 6 | 2 8 | 2 8 | 2 | RD | P D | 2 | PD PD | 8 | 2 | 2 | 2 | E | | | 5 6 | 2 6 | 2 6 | 2 8 | | 2 | S. | 2 | 2 | 8 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | GR GR | 8 | 8 | 2 | 2 | 2 2 | 2 2 | 2 | RD. |
| | 000077 | 1480KD | NON I | | NONE | מת | 39P | 0.01 | 0.01 | 0.01 | 47µ(16V) | NON | LNCN | LNON | L L L | NON | | J I V I | 102 | | | NON I | | NONE | NONE | NONE | NON | NONE | 2200µ(16V) | NONE | NONE | 220P | 220P | 220P | LINON | INCN. | | ILVCZ LLVCZ | | J. C. | | | | NONE |
| F | | | CA22 | CAZ4 | CA44 | CA4 / | CA48 | C101 | C103 | C105 | C1 08 | 0113 | 2117 | 0115 | 0118 | 215 | 0,00 | 200 | 0121 | 01.22 | 01.23 | 5128 | 67.0 | C146 | C148 | C149 | C152 | C160 | C165 | C225 | C226 | C315 | 0441 | 0443 | C701 | 0702 | C703 | 5707 | C705 | 07.05 | C707 | C708 | 0709 | C710 |
| | | | | 2 | | 2 | 2 | 2 | 2 | 1 | | F | | | | F | 5 6 | | 2 6 | 2 | 2 | 2 | | 2 | 2 | 2 | | P | | P | F | Œ | F | | F | | F | E | F | | 3 E |) - | 1 | 10 |

(2/2)

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OBSERVATION OF VOLTAGES AND WAVEFORMS

- 1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary ±20%.
- 2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
- 3. Waveforms are taken using a standard colour bar signal.4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

NOTES:

- 1. D.C. resistance value gram. These are me 2. The circuits are sub
- **Solder links.**

14 | 19 |

NOTES:

- 1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
- 2. The circuits are subject to change without notice.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR :

- 1. Resistance is shown in ohm, k=1,000, N
- Unless other wise noted in schematic, sed in µF and the values more than 1 ir
- 3. Unless otherwise noted in schematic, a sed in μ H, and the values less than 1 in

| ומ | C70017-111 | מע | 5017 | TNT 4023A3 | | L100 | TIN 4020AO | 1 | 2017 | | |
|-------------|---|-----|-------|---|-------------------|--|---|------|---------------|---|-----|
| | TRF1239AV | 2 | | 3UZ | 4 | L161 | NEW | 1 | 161 | 63 | |
| _ | NON | 26 | | TREATOUAE | ı þ | 1 702 | TRE4100AF | T 17 | 1702 | 105 | |
| 7 - | POWER CORD | | | POWER CORD | = = | P801 | POWER CORD | | P801 | 9 | |
| 6 | NONE | RD | | 2SC1815-Y | H | QA09 | 2SC1815-Y | | QA09 | SH | |
| 0 | NONE | RD | | RN1203 | 4 | QA13 | NONE | # 1 | QA13 | 5H | 8 |
| 0 | LA7910 | 26 | | DSCARRATM | <u> </u> | Q163 | CA/910 | T | 0103 | 28 | |
| t loo | NON | 2 | 0108 | RN1206 | F | 0108 | RN1206 | R. | 0108 | 9H | |
| 9 | NONE | 8 | | RN1206 | H | Q109 | RN1206 | | Q109 | 6F | |
| 2 | NONE | 2 | | 25C1815-Y | # F | 0212 | NON I | | 0212 | 13E | |
| 7 | NONE TRIVAIN | 2 5 | | ZSC1815-1 | - - | M302 | TR1238N | | M502 0501 | 300 | |
| - 0 | NONE | 2 2 | i | TA1275AZ | H | 0560 | TA1275AZ | H. | 0560 | 10F | |
| 2 | NONE | 2 | | RN1203 | TF | a602 | NONE | | 0602 | 90 | |
| 7 | NONE | 2 | | RN1203 | 4 | 0614 | RN1203 | | 0614 | 7D | |
| 0 - | NONE NONE | 28 | | 주 [편 | <u></u> | RA10 | NON LE | + li | RA10 | - m | |
| - 00 | | 2 2 | | P470 | 느 | RA13 | P470 | | RA13 | 98 | |
|))) | NONE | 2 | | P10K | ļ. | RA18 | P10K | | RA18 | 5H | 9 |
| 7 | NONE | 8 | | P27K | H | RA37 | NONE | 出 | RA37 | 7. Y. | |
| 0 | NONE | 2 | | 717 319 | | RA40 | NONE | | RA40 | 33. | |
| 70 | PZZK NONE | 2 6 | | 7 5 Z | 1. 14 | KA62 RA79 | 707 F | | RADZ RA79 | 20 21 | • |
| D . | P.O.S. | 2 2 | | Paak | - | R001 | P33 X | 1 | R001 | 41 | |
| 2 | P7.5K | 8 | | P27K | ¥ | R002 | P27K | | R002 | 41 | |
| 7 | P1K | 8 | | P1K | H | R107 | ¥1° | | R107 | 2B | |
| 0 | P1K | 2 | | P1K | | R120 | 71X | | R120 | 2B | |
| | 73. ºK | 26 | | 7.5. y | ± ± | K121 | 73. YK | F H | 12 Z | 37 | |
| o kr | | 2 2 | | P. 1. 7. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. | - - | R126 | P5.6X | | R126 | 20 | |
| | NONE | 2 2 | | P1K | <u></u> | R127 | P1K | H | R127 | 2C | 1 |
| ω. | NONE | 8 | | P36 | TF | R128 | P36 | | R128 | 2D | 0 |
| m | NONE | 2 | | P4.7K | <u> </u> | R129 | P4. 7X | | R129 | 2C | |
| - lc | NON F | 2 | | P2.2K | <u>+</u> | K131 | 77.77 90.09 | 1 | 12 P | 2C | |
| 5 7 | | 9 6 | | 72.28 P3.38 | ± | R164 | 7. K. | | R164 |) L | |
| 1 100 | | 2 2 | | P5. 4 | H | R165 | P5.1 X | | R165 | 7F | |
| | NON | 2 | | Pa. ak | TF | R166 | P3.3K | H. | R166 | 7F | 1 |
| | NON | 8 | | P100 | 11 | R167 | P100 | 4 | R167 | 7F | |
| m d | NONE | 216 | R168 | ت آ آ | <u>+</u> | K168 | ت ا ا | ¥ H | 7168 8169 | 1 H | |
| | TINON TINON | 5 2 | | ž Š | - | R170 | <u>7</u> | H. | R170 | 96 | |
| 2 | NONE | 2 | | P100 | 1 | R172 | P100 | L. | R172 | 9F | |
| 0 | P270 | 8 | | P270 | Ł | R173 | P270 | | R173 | 8F | 11 |
| ام | NONE | 2 | | P470 | ± | R175 | P470 | | R175 | 48 | |
| | NONE | 26 | | P100 | ± | / [X] a | P100 | ł li | 71/ 818' | r r | |
| 7 | NONE | 9 | | P750 | | R204 | NONE | | R204 | 13E | |
| 0 | NONE | RD | | P1K | TF | R220 | NONE | | R220 | 13E | |
| 2 | NONE | 2 | | 717 217 | | R225 | NON S | | R225 | m Cu | |
| | | 2 6 | | P10K | <u>.</u> <u>μ</u> | 700 700 700 700 700 700 700 700 700 700 | | | R580 | 200- | |
| o o | NONE | 2 2 | | P220 | <u> </u> | R606 | P220 | # | R606 | 7C | |
| 6 | NONE | 2 | | P27K | 쁘 | R609 | NONE | | R609 | 60 | |
| 2 0 | | 2 6 | | 710K | <u> </u> | K632 R633 | 710K | ± ± | R633 | 2 2 | |
| 9 | NON | 2 | | P6.2K | E | R706 | P6.2K | 1 | R706 | 116 | 1.0 |
| | NONE | [B] | | P47K | 브 | R707 | P47K | | R707 | 111 | 2 |
| œ . | NONE S | 2 | | P9.1K | | R708 | P9.14 | | K'/08 7101 | 11E | |
| | NOINE DEWG1962M | 2 2 | 7102 | OFWG1965M | 느 | 7102 | OFWG1965M | T | 2102 | 38 | |
| 3 | FILTCF1031 | 2 | 2103 | FILTOF1031 | ഥ | 2103 | FILTCF1031 | | 2103 | 94 | |
| 7 | NONE | 2 2 | 2104 | TCF1008 | 11 | 2104 | TCF1008 | 분님 | 2104 | 86 | |
| 0 (1 | | 2 2 | 21.05 | TCE1068 | - | 2105 | TCF1068 | T | 7106 | 7 | |
| | | 2 | 0 | 5 | |) | | | | | |
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| | | 2 | | | H | | | H. | | | 13 |
| | | RD | | | TF | | | RF | | | |
| | | | | | ı | | | | | | |

RESSION

JE OF RESISTOR, CAPACITOR and INDUCTOR

sistance is shown in ohm, k=1,000, M=1,000,000 less other wise noted in schematic, all capacitor values less than 1 are expresin μ F and the values more than 1 in pF. less otherwise noted in schematic, all inductor values more than 1 are expresin μ H, and the values less than 1 in H.

| 12 | 13 | 14 | 15 | 16 |
|--|---------|----|-----------------|---|
| | | | | |
| | | | | A |
| 70 111E 111E 31C 38E 88E 86E 86C | 00 | | | |
| R632 R633 R706 R707 R708 Z101 Z102 Z103 Z103 | 2106 | | | В |
| | | | | |
| P10K P6.2K P4.7K P9.1K P9.1K OFW19453M OFW1965M F11 TCF1031 TCF1018 | TOF1068 | | | С |
| R632 R633 R706 R707 R708 Z102 Z102 Z103 Z103 Z104 | 5106 | | | |
| | | | | |
| P10K P6.2K P6.2K P4.7K P9.1K P9.1K F1LTGE1031 TGE1008 | TCF1068 | | | D |
| R632 R633 R706 R707 R708 Z102 Z102 Z103 Z104 | 2,105 | | | |
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| E | | 2 | 2 | 2 | | B B | RD | R) | 2 | 2 | 2 & | B G | 2 | 2 | 2 | RD. | 2 | 2 | 2 | 2 | 2 6 | 2 2 | 2 | - RD | 2 | ⊋ 6 | 2 6 | 2 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2/8 | 2 2 | 8 |
|-----|----------|-------------|---------------|----------|--------------|--------|------|--------|------------|--------------|--------------|--------------|-----------|------|------|------|------|------|--------|-------|--------------|------|------|------------|------|-------|------|-------|--|------|----------|------|------|-------|--------|-------|------|
| | 1480RD | NONE | NONE | NON | 1 do 8 | 0.01 | 0.01 | 0.01 | 47 µ (16V) | | | J. J. NON | NONE | NON | MON | NONE | NONE | NONE | UON I | NON I | | | NONE | 2200µ(16V | NONE | NON | 220F | 220P | NON | NON | NON | NONE | NONE | NON ! | NON S | | NONE |
| F | | CA22 | CA24 | CA44 | CA47 | C101 | C103 | C105 | C108 | C113 | 0115 | 0118 | C119 | C120 | C121 | C122 | C123 | C128 | C129 | C146 | 875 | C152 | C160 | C165 | C225 | CZZ6 | 57.7 | C4441 | C701 | C702 | C703 | C704 | C705 | C706 | C/07 | 6709 | C710 |
| | | 10 | 2 | 2 | 2 [| 2 | 2 | 2 | 2 | 2 | | | 2 2 | 1 | TD | | 1 | 2 | 2 | | | | 2 | 1 | | | | | 2 6 | 1 | TD | | 2 | 2 | | | P |
| | 1480TD | 0.1 µ (50V) | 0.1 µ (50V) | 47µ(16V) | 0.014(50V) | 0.01 | 0.01 | 0.01 μ | 47µ(16V) | NONE NONE | | | J. J. ON. | None | NONE | NON | NONE | NONE | Non | NON I | | | NONE | 2200µ(16V) | NONE | NON C | 220P | 220F | 1 NOS | | NONE | NONE | NONE | Non- | NONE | | NONE |
| G - | | CA22 | CA24 | CA44 | CA47 | C101 | C103 | C105 | C108 | C113 | 2 C | 0118 | 0119 | 0120 | C121 | C122 | C123 | C128 | C129 | C146 | 21,48 | C152 | C160 | C165 | C225 | C226 | 5/7 | 6773 | 5701 | C702 | C703 | C704 | C705 | C706 | C707 | C 709 | C710 |
| | | RB | B | 2 | 9 2 | 98 | Æ | BB. | 2 | 2 | 2 2 | g g | æ | æ | RB | RB | RB | RB | 88 | 2 | 7 6 | 2 8 | 88 | RB | RB | 2 | 2 2 | 2 2 | 2 2 | 202 | RB RB | 8 | RB | 2 | 8 | r g | 9 |
| н | 1480RB/W | NONE | NONE | UON CO | 755 955 | NONE | NONE | NONE | 47 µ (16V) | III L | | J LNCK | J WON | HON | NONE | NONE | NONE | NONE | JUON I | | NON NO | | NONE | NONE | NONE | | | | J. NON | NON | NONE | NONE | NONE | NONE | NON I | | NON |
| | | CA22 | CA24 | CA44 | CA47 | 2101 | C103 | 2105 | C1 08 | 0113 | 0115 | 21.0 | C119 | C120 | C121 | C122 | 123 | 128 | C129 | 7146 | 27/2 | C152 | C160 | C165 | C225 | C226 | 02/7 | 6770 | C701 | 702 | 703 | C704 | C705 | C706 | C707 | 2709 | C710 |
| | | TB | | 1 | | \top | T | | 1 | 1 | + | t | | | TB | | | | 1 | | t | | t | H | | 81 | Ť | T | T | t | t | | | 7 | + | | t |
| 1 | 1480TB/W | 0.1 µ (50V) | $0.1\mu(50V)$ | 47µ(16V) | 0.01 µ (50V) | NONE | NONE | NONE | 47µ(16V) | | NONE NONE | NONE NONE | NONE | NONE | NONE | NONE | NONE | NONE | NONE | NON: | NONE NONE | | NONE | NONE | NONE | NONE | | | NON | NON | NONE | NONE | NONE | NONE | JONE . | | |
| J | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | C708 | |
| | NOI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| к | LOCATIO | CA22 | CA24 | CA44 | CA4.0 | C101 | C103 | C105 | C108 | 0113 | 7117 | 2130 | 0119 | C120 | C121 | C122 | C123 | C128 | C129 | C146 | C148 | C152 | C160 | C165 | 0225 | 0226 | 5213 | 0,7,7 | 0.701 | C702 | C703 | C704 | C705 | C706 | C707 | C708 | C710 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | The state of the s | | | | | | : | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | - | | 1 | | | | | | | | | | | 2 | | | | | | | | | | | | 3 | | | | | | | | | | |

| | C225 | C225 | | a E | 0226 | | j R | C225 | 1 LINC Z | | C225 | NON THE | 26 |
|---|----------------|--------------|--------------------|------------|-------|--|--------------------|--------|---|------|-------|---------------|--------------|
| | C315 | C315 | NON . | 118 | C315 | NONE | 8 | C315 | 220P | P | C315 | 220P | 2 2 |
| | C441 C443 | C441 C443 | | 2 4 | C441 | NONE NONE | (1) (1) (2) (3) | C441 | 220P | | 0441 | 220P | 2/8 |
| | C701 | C701 | J. O.N. | <u>B</u> | C701 | NON | 88 | C701 | NONE | | C701 | NONE | 2 2 |
| | C702 | C702 | NON | TB | C702 | NONE | RB | C702 | NONE | | C702 | NONE | RD. |
| | C703 | C703 | | 118 | C703 | NON | 2 | C703 | NONE | | C703 | NONE | 2 |
| | C705 | C705 | | 2 12 | C705 | NON TO SE | 2 2 | C705 | | | C705 | NON PI | 2 2 |
| | C706 | C706 | NONE | TB | C706 | NON | RB. | C706 | NONE | | C706 | NONE | R |
| | C707 | C707 | NONE | P F | C707 | NONE | RB S | C707 | NONE | | C707 | NONE | RD. |
| | C/08 | C/08 | | 20 | C708 | NON N | 88 | C708 | | | C708 | UNON L | 2 |
| | C710 | C710 | NON NON | P | C710 | | 8 8 | C710 | | | C710 | | |
| | D10; | D101 | NONE | IB. | D101 | NON | RB | D101 | 1N4148 | | D101 | 1N4148 | 2 |
| | D102 | D102 | NONE | 1B | D102 | NONE | RB | D102 | NONE | | D102 | NONE | RD |
| | D103 | D103 | NONE | | D103 | NON E | 2 | D103 | NONE. | | | NONE | 2 |
| | 7104 | 10104 | | 2 1 | D104 | | P 8 | D104 | | | | NON L | 2 |
| | 5106 | D106 | | | D106 | | B | 0105 | | | | | |
| | 6702 | GJ 02 | SHORT | 9 | 6702 | SHORT | 8 | 6702 | SHORT | | | SHORT | 2 |
| | 6.05 | 6105 | NONE | 118 | 6,05 | NON | RB | 6705 | NONE | | 1 | NONE | RD |
| | 6,06 | 6,06 | NONE | <u>1</u> B | 6706 | NONE | RB | 9009 | NONE | | | NONE | 2 |
| | 6,112 | 6312 | NONE | TB | 6312 | NONE | RB | 6012 | NONE | | | NONE | R |
| | 6.115 | 6.115 | NONE | TB | 6115 | NONE | RB | 6.115 | NONE | | | NONE | PD |
| | 6,118 | 6.118 | SHORT | TB | 6118 | SHORT | RB | 6,118 | SHORT | | | SHORT | 2 2 |
| | 6.021 | 6.27 | SHORT | 9 4 | 6.121 | | 2 | 6721 | SHORT | | 6.121 | | 2 |
| | 9123 | 60.22 | SHOR S | n r | 5775 | | 9 8 | 6122 | SHOR | | GU22 | NONE SORE | ⊋ 6 |
| | 3324 | 6324 | | 1 | GU24 | SHORT | 2 8 | 6,124 | - LOUN | | 6.124 | SHORT | |
| | 5,125 | 6025 | NONE | 18 | 6,125 | SHORT | 9 | 60.25 | NONE | | 6725 | SHORT | 2 2 |
| | GJ27 | GJ27 | NON | E | 6J27 | NON | 8 | 6327 | NON | | 6327 | NON | |
| | 6729 | 6729 | NONE | æ | 6729 | NONE | RB | 67.29 | SHORT | | GJ29 | SHORT | 2 |
| | 6J32 | 6.132 | NONE | 18 | 6.132 | NONE | # | 6.132 | NON | П | 6J32 | NONE | 8 |
| | 6033 | 6.133 | | n a | 6733 | NONE | 2 8 | 6.133 | NON TO SE | 2 F | 6,133 | NONE | 2 2 3 |
| | 7715 | 6.144 | | a a | 617.7 | - KOLON | 2 2 | G17.7. | | 1 | G74Z | THOUS THOUSE | 2 6 |
| | 3746 | 6746 | SHORT | 18 | 6746 | | 2 8 | 6746 | SHORT | | 9719 | UONE NONE | 2 2 |
| | 3747 | 6.147 | SHORT | 18 | GJ47 | SHORT | RB | 6147 | SHORT | | 6747 | SHORT | |
| | 5001 | C001 | SHORT | æ | G001 | SHORT | RB | 6001 | NONE | | 6001 | NONE | 2 |
| | 5004 | 6004 | SHORT | 9 9 | 6004 | SHORT | 88 | 6004 | SHORT | | G004 | SHORT | 2 2 |
| | 3008 | 6005 | | n g | 6009 | | P 8 | 2002 | NON NO | | GUUS | NONE | 2 6 |
| | 3008 | 6008 | | | 0008 | | 2 2 | G008 | SHORT | Ť. | 9008 | SHORT | |
| | 3009 | 6009 | SHORT | 9 | 6009 | SHORT | 28 | 6000 | TEM2011 | | 6009 | TEM2011 | 2 2 |
| | 3010 | 6010 | SHORT | ш | 0010 | SHORT | B B | 6010 | P68 | | 6010 | P68 | |
| | 3011 | 6011 | SHORT | Æ | G011 | SHORT | RB | 6011 | P100 | | 6011 | P100 | 윤 |
| | 3017 | 6017 | P47K | m F | 5017 | NONE | 88 | 6017 | P47K | 1 | 6017 | NONE | 2 |
| | 101 | 5101 | SHOR? | 2 2 | 5101 | SHOK- | 2 0 | 5101 | SHOK! | | 6101 | SHORT | ا چاچ |
| | 1001 | ICA01 | SAA52902P70 | 84R | TCA01 | ABP ABP | | TCA01 | SAA52902P7084TD | 1 | | PRACOSSRP719 | 2 E |
| | 10102 | IC102 | NONE | TB | IC102 | NONE | RB RB | IC102 | | 12 | 2 | NONE | |
| | -A04 | LAG4 | TEM2011 | TB | LA04 | NONE | RB | LAG4 | TEM2011 | | | NONE | |
| | -A05 | _A05 | TEM2011 | 9 | LA05 | 0 | 88 | LA05 | TEM2011 | | | NONE | 2 |
| | _Aub | LAUE | NONE TREVE/17/1 | n a | LAU6 | TEC/6/74 | 20 | LA06 | NONE TDE/DEGA- | 2 6 | LA06 | TREABON TOTAL | |
| | 103 | L103 | NON HISTORY | n m | L103 | NON TITLE A | 2 2 | 103 | NONF | | | NONE TANGON | |
| | _104 | 2104 | NONE | TB | 104 | NONE | æ | L104 | NONE | | 104 | NONE | 2 |
| 7 | 105 | L105 | TRF9221 | 119 | L105 | TRF9221 | 88 | L105 | TRF9220 | | 105 | TRF9220 | |
| | -108 | L108 | TRF41004J | <u>B</u> | L108 | TRF41004J | RB | L108 | TRF41004J | 10 1 | 108 | TRF41004J F | 2 |
| | 161 | | TRF1239AV | 92 | L161 | TRF1239AV | 2 | L161 | TRF1239AV | | 161 | TRF1239AV F | |
| | 707 | 1.702 | | ng | 707 | NON NON N | P a | 1707 | NON FINANCIAL PROPERTY OF THE | | 707 | | 9 5 |
| | 5801 | P801 | POWER CORD | P | F801 | POWER CORD | 2 8 | P801 | POWER CORD | | P801 | POWER CORD | |
| | 2A09 | QA09 | 1 | 192 | QA09 | NON | 88 | QA09 | | | 6 | NON | |
| | 0A13 | QA13 | NON | 118 | QA13 | NONE | RB B | QA13 | NONE | 10 | QA13 | | |
| | 21 03 21 03 | G103 | NON P | m | 0103 | 10 NON 10 | 2 g | Ø103 | NONE | 2 6 | 2103 | A'/910 F | 2/5 |
| | Q108 | 0108 | NONE | E E | 0108 | NON | 28 | 0108 | NONE | | 2108 | NONE NONE | |
| | 2109 | 0109 | NON | В | 0109 | NONE | RB | 0109 | NONE | | 109 | NONE E | 2 |
| 0 | 2212 | 0212 | 2SC1815-Y | m | Q212 | NONE | 8 | 0212 | 2SC1815-Y | F | 1212 | | 2 |

| NONE | 7,07 | L702 | NONE | m | .702 | NONE | RB | L702 | HNON | | L702 | NONE | 2 |
|--|--------------|--------------|--------------|-------------|--|---|--------|---------------|---|---------------|---------|---|----------|
| Column C | P801 | P801 | POWER CORE | <u>B</u> | P801 | POWER CO | 940 RB | P801 | POWER COR | _ i | P801 | | |
| 1,000 1,00 | OA13 | CAUG OA13 | | | UAU9 | IJ DON | P 2 | QA09 | NON NON | | QA09 | NON I | 2 |
| 10.05 | 0.40 | 0 000 | | | WATON O | | n c | CAI C | NON | | CA13 | NONE | 2 |
| 10.00 | | 0000 | LI LIZON | 2 0 | 7000 | | P | W103 | LA /910 | | Q103 | LA'/910 | 2 |
| 1,000 1,00 | 70107 | W104 | NO S | 20 0 | Q104 | | RB | 0104 | NON | 2 | Q107 | NONE | RD. |
| Colored Colo | 8010 | W108 | NON | 8 | 0108 | ENON: | RB | 0108 | NONE | | Q108 | ENON! | 8 |
| 1975 | 9010 | @10g | NON | | Ø109 | NON I | 8 | Q109 | NONE | | 0109 | NON | 2 |
| Color | ZIZM | QZ1Z | 25C1815-Y | m f | 0212 | | 88 | 0212 | 25C1815-Y | | Q212 | NONE | 8 |
| Colored Name Colo | 0202 | 0502 | | <u>n</u> | M302 | NON THE | 2 8 | Z0E0, | ZSC1815-Y | | Q302 | NONE | 2 |
| 1975 | 02500 | 0280 | | | M201 | NICALIN | r a | 0860 | NI SZ LAI | | US01 | ND Z31N | 2 2 |
| March Marc | 2090 | 0502 | | E E | 0000 | J. D. | g | 0800 | | 2 | W360 | | 2 6 |
| Mail | 7190 | 0614 | NON | E | 0614 | J LIZOZ | | 0617 | NONE | | 061/ | | 2 2 |
| MAIN | RAID | RA10 | XIO | | 1014 | | D B B | D 0 1 | 717 | | 4 6 | | 2 2 |
| March Marc | DA11 | BA11 | ž La | g | BA11 | | 2 0 | 0 414 | 70,00 | | 2 4 4 0 | | 9/8 |
| 1437 | - LAG | B 14 | NO. I | | - 0 | | 2 2 | - (| 50.5 | | KAII | NON | ⊋ ç |
| 1,150, 1 | 2 A A A A | 2 A 1 A | | | 2147 | NONE | 2 0 | 74 C | | 2 F | KA13 | | 2 |
| Marco Marc | D A 37 | D1A7 | ACCO. | o p | 1.A.10 | NONE | 2 8 | 0 LA 0 A A | NON THE | 2 F | KAIG | | 2 9 |
| March Marc | 0.749 | () V () | D11Z | 0 p | 1743/ | Jacob Lagrand | 200 | 7047 | PZ/K | = - | KA3/ | NON . | 2 |
| Money Mone | 04840 | 7.7440 | ¥ C C | n p | HA40 | NOINE | 9 8 | RA40 | 71X | | HA40 | NONE | 2 |
| Mode | TANA DANA | RABZ | PZZK NONF | | KA62 | PZZK | # E | RA62 | P22K | | RA62 | P22K | 2 |
| Marco Marc | 1000 | D/ A/ 0 | | | TA/U | NOR L | P | NA /U | NONE | | KA'/9 | NONE | 2 |
| R.126 R.126 R.127 R.12 | 1005 | 1000 1000 | NONE | 2 | 500 | NON | P | K001 | Paak | | R001 | P33K | 2 |
| H123 WANGE To H124 WANGE TO H125 WANGE TO H125 | RUUZ | ZUUZ | A NON | 2 | K002 | T S | 2 2 | K00Z | P.7.5K | 2 | H002 | P7.5¥ | 2 |
| R.25 WORE 15 R.25 WORE 24 R.25 WORE 15 R.25 WORE | /UIX | R10/ | NON I | <u>p</u> [2 |) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C | | 2 2 | | T 5 | | R107 | 7. T | 2/2 |
| 1.25 WANE | W 1/2 C | R121 | UNCN UNCN | n p | B121 | | 2 8 | 2120 | F1K | ⊒ £ | K120 | T C | 2 |
| NAME | R125 | R125 | NON HIND | E | R125 | | 2 2 | P125 | NON THE | 2 | N C 1 G | 7 L C Z | 2 6 |
| R123 | R126 | R126 | J LINON | e e | R126 | | 2 a | B125 | | 2 2 | 2170 | | 2/2 |
| H PA NOWE 19 R128 NOWE 19 R128 NOWE 10 R129 NOWE 19 R129 NOWE 10 R129 NOWE 19 R129 NOWE 19 R129 NOWE 10 R129 NOWE 10 R129 NOWE R129 NO | R127 | R127 | NONE | | R127 | | 2 8 | R127 | | | R127 | | 2 6 |
| H122 | R128 | R128 | NONE | 18 | R128 | NON | RB | R128 | | | R128 | | |
| R133 NOVE | R:29 | R129 | NONE | 18 | R129 | NON NON | R | R129 | | | R129 | | 2 2 |
| REG. NONE 119 REG. NONE 160 REG. NONE 170 REG. | R131 | R131 | NONE | IBI | R131 | | | R13. | | F | 2 E | J LINGN | 2 6 |
| RIGH NOVE 18 RIGH NOVE RIGH RIGH RIGH RIGH NOVE RIGH RI | R133 | R133 | NONE | P | R133 | NON | RB | R133 | NON N | | R133 | | |
| RIGG NONE 19 RIGG NONE RIGG NONE TO RIGG NONE RIGG RIGG | R164 | R164 | NONE | TB | R164 | NONE | RB | R164 | NON | 1 | R164 | | 2 |
| RIGH NONE 19 RIGH NONE RIGH RIGH NONE TO RIGH NONE TO RIGH NONE RIGH NONE TO RIGH NONE TO RIGH NONE RIGH NONE TO RIGH NONE RIGH NONE TO RIGH NONE RIGH RIGH NONE TO RIGH NONE RIGH RIGH NONE RIGH RIGH NONE RIGH RIGH NONE RIGH RI | R165 | R165 | NONE | 18 | R165 | NONE | RB | R165 | NON | | R165 | | 8 |
| R169 | R166 | R166 | NONE | B | R166 | MON | RB | R166 | NONE | 2 | R166 | NONE | 8 |
| R168 NONE TB R169 NONE TB R169 NONE TD R169 NONE TB R169 NONE TB R169 NONE TB R169 NONE TB R170 NONE TB R170 NONE TD R170 NONE TB R171 NONE TB R172 NONE | R167 | R167 | NONE | 18 | R167 | NON | RB | R167 | NONE | | R167 | NONE | 2 |
| R156 | R168 | R168 | NONE | B | R168 | NONE | RB | R168 | NONE | P | R168 | NON | 8 |
| R172 NONE | R169 | R169 | NONE | E | R169 | NONE | RB | R169 | NONE | 2 | R169 | NON | A |
| R172 NONE | R170 | R170 | NONE | TB | R170 | NONE | RB | R170 | NONE | P | R170 | NONE | 8 |
| R173 R174 R175 | R172 | R172 | NoNE | TB | R172 | NONE | RB | R172 | NONE | P | R172 | NONE | 8 |
| R175 NONE NONE NONE R175 NONE NONE NONE R175 NONE NONE NONE R175 NONE NONE NONE R175 NONE NONE NONE R175 NONE | R173 | R173 | JON. | 18 | R173 | NONE | RB | R173 | P270 | TD | R173 | P270 | 8 |
| R181 P220 | R175 | R175 | P470 | <u>m</u> | R175 | P470 | 88 | R175 | NONE | ₽ | R175 | NONE | 2 |
| Hear Page Page Hear Page Hear Page Page Hear Page Hear Page Hear Page Hear Hear Page Hear | K17/ | K177 | NONE | 9 | R177 | NON | 2 | R177 | NONE | 2 | R177 | NONE | RD |
| R226 P1K TB R225 NOME RB R226 P1K TD R226 NOME R226 P1K TB R225 NOME RB R226 P1K TD R226 NOME R260 P15K TB R260 NOME RB R226 P1K TD R226 NOME R560 P15K TB R606 NOME RB R609 P10K TD R360 NOME R663 NOME TB R609 NOME TD R639 NOME RB R609 NOME RB R639 NOME RB R700 NOME RB </td <td>N N N</td> <td>R181</td> <td>P220</td> <td></td> <td>K181</td> <td>P220</td> <td>7 8</td> <td>R181</td> <td>P56</td> <td>2</td> <td>R181</td> <td>P56</td> <td>8</td> | N N N | R181 | P220 | | K181 | P220 | 7 8 | R181 | P56 | 2 | R181 | P56 | 8 |
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